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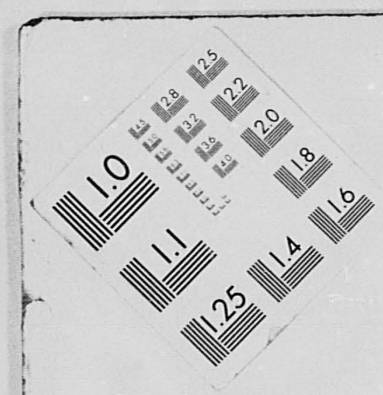
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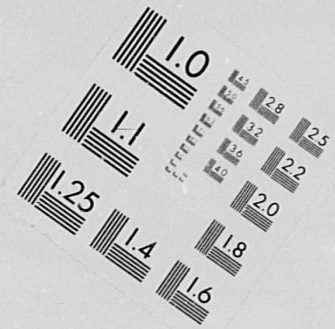
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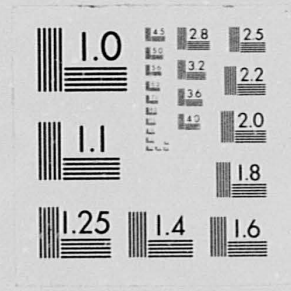
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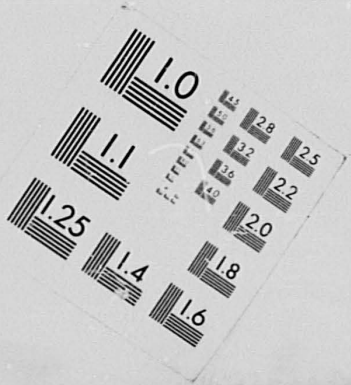


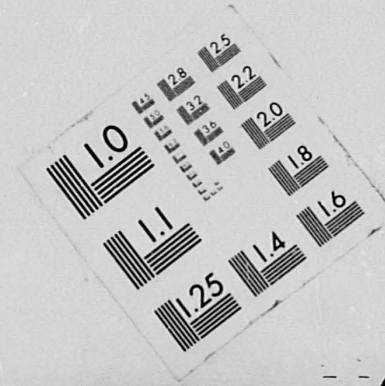


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North African Theater "Excerpts from Rpts. Regarding Aviation in North African Theater"

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EXCERPT FROM REPORTS OF MAJOR GEN. JOHN P. LUCAS AND MAJOR GEN. C.W. HALL DATED APRIL 28 AND APRIL 24, 1943 RESPECTIVELY, REGARDING AVIATION IN NORTH AFRICAN THEATER.

GAP 452.1531 APR 1943 RETURN TO

Comments by Major General John P. Lucas:

I was told at Allied Headquarters that it had been recommended to the War Department to do away with the observation group as it has been known in the past. This type of work to be done by "Fighter" The new group is made up of P-51's ; three squadrons, of which two are "Fighters" squadrons and one Observation. The "Fighter" group had been used where most needed. Units consist of seven "Fighters groups, two "light Bombers" groups, and, in critical times, may be reinforded by Medium and Light Bomber groups from the strategic command. This apparently follows the German setup.

I could find only one case in which any unit received serial photographs. This was an infantry regiment and the commander reported that the photographs that were given him were of great value. I could find no case in which artillery unit had received such photographs, nor could I find any case where ground troops had received close battle support from the air . So far as reconniassance missions are concerned, no such mission is ever flown with less than twelve planes, which reduces the number of missions that can be accomplished. General Patton and General Bradley both seem to feel that American troops are not getting enough assistance in the matter of air reconniassance. The air [illegible] officer at Allied Headquarters stated that , with the exception of the fact that air groups are not attached to ground units, the setup is in harmony with the principle of our air-ground doctrine. He stated also, that it had been found that if less than twelve "Fighters" were sent out the opposition to the mission would be too great. He stated that the difficulty in getting photographs had been due primarily to the lack of planes, and he also stated that it was difficult to evaluate various battle needs and to allocate planes to accomplish those which were thought to be most vital. In my opinion, there must be practical work in air-ground liaison, air reconniassance, and support of ground troops in the attack. We are behind the Germans in this.

The Germans coorinate aircraft and tank attack and not only use air to support the movement of armored units, but also to draw attention away from the maneuvers of the ground forces.

The grasshoppers plane has proven its value for command and liaison purposes but has been used very seldom for the Adjustment of fire. Many officers; among them general Eisenhower, believe that it cannot live at the altitude necessary for this purpose. I saw them in Tunisia but never at any height above the ground. In my opinion, the plane has not, as yet, been given a fair test and should not be eliminated until it has been tried out in country where ground observation is more difficult than in Southern Tunisia.

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Comments by Major General C.P. Hall:

Air photo were practically non-existent, although many calls were made for them. I could not determine whether or not this was due to lack of equipment for taking the photos or to failure on the part of the Air Corps to furnish them. The 18th Infantry received air photos the day before I talked to its commanding Officer. These photos had been recaptured from the Germans.

The observation squadron as ~~xx~~ organized in this country does not exit in Africa. No mission will be flown with less than twelve fighter planes. I was informed that a new organixation was being set up , consisting of two fighter plane squadrons and one photographic squadron, and that when this detup was complete the group would be " theoretically under ground command"

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TABLE OF CONTENTS

I Communications

Road and Rail Bridges

II Counter Intelligence

Security Coverage of Towns

III Interrogation Report

Guard Unit MARSEILLES

IV Technical Notes

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I COMMUNICATIONS:

Road and Rail Bridges

The following changes and additions to the Road and Rail Bridge Report listed in Section II, "Communications" G-2 Information Bulletin #9, dated 27 August 1944, have been noted.

Corrections refer to previously listed bridges by number.

Additions are numbered to continue the present list.

Corrections:

Number		Co-ordinate	Obstacle	Status	Date	Source
63	Road Bridge	VS-518954	Var	Out	17	Photo
514	Rail Bridge	BH-998025	Isere	In	27	Photo
531	Rail Bridge	VS-535872	Var	In	27	Photo

The dates of the following numbered bridges should be changed as follows:

A. Numbers 11, 12, 13, 14, 15, 18, 20, 24, 27, 28, 29, 71, 510, 518, 533; change date to August 27.

B. Numbers 16, 509; change to 24 August.

C. Numbers 23, 40, 41 should be changed to read "Out - 27".

D. Number 29 should be changed to read "Damaged 28".

E. Number 60, 77, and 530 should be changed to read "Out - 28".

F. Number 514 changed to read "In - 27".

G. Number 540 changed to read "Damaged - 27".

H. Number 521 changed to read "Out - 27 - Photo".

Additions:

Road Bridges

Number	Location	Co-ordinate	Obstacle	Status	Date	Source
74	Rochegarde	BN-567178	Ceze	Out	27	Visual
75	Chandolas	BN-510342	Chassezac	Out	27	Visual
76	Colomars	VN-536872	Var	Out	22	Photo
77	La California	VS-522760	Var	In	19	Photo
78	St Fortunat	BN-050835	Erieux	Damaged	26	Photo
79	Vernaison	WX-033748	Rhone	Out	27	Photo
80	St Alban du Rhone	WX-883492	Rhone	Out	27	Photo
81	Lemas	BN-639498	Ardeche	Out	27	Photo
82	Joyeuse	BN-519443	Beaume	Out	27	Photo
83	Bombis	BN-703537	Claduegne	Out	27	Photo
84	Vogue	BN-648522	Auzon	Out	27	Photo
85	Cagnes	VS-486754	Canal	Out	28	Photo
86	Cagnes	VS-486751	Canal	Out	28	Photo
87	Coudes	WW-685688	Allier	Out	28	Photo
88	Corent	WW-682745	Allier	Out	28	Photo
89	Corent S.	WW-676740	Allier	Out	28	Photo

Rail Bridges

541	Colomars	VN-536872	Var	Out	22	Photo
542	St. Gilles	BS-692547	Canal	Out	25	Photo
543	Givors	WX-898682	Giers	Damaged	25	Photo
544	Givors	WX-898682	Giers	Damaged	25	Photo

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Number	Location	Co-ordinate	Obstacle	Status	Date	Source
545	Les Cros	BH-229145	Loire	Out	27	Photo
546	St. Julien	BN-481138	Auzonnet	Out	27	Photo
547	Arles	BN-469056	Overpass	Out	27	Photo
548	Blazny	WS-577908	Canal	Damaged	27	Photo
549	Bourg St. Andeol N.	BN-891372	Road	Out	28	Photo
		Ferries				
1.	Glun	BH-974046	Rhone	In	27	Photo
	Note: There is no bridge as listed as #22.					
2.	Tarascon N.	BS-838741	Rhone	In	20	Photo
		Fords				
1.	Livron	BN-957773	Drome	In	27	Photo
2.	Livron	BN-981771	Drome	In	27	Photo
3.	Livron	BN-975773	Drome	In	27	Photo

General

The road from Briancon to L'Argentiere appears to have several bridges blown, as reported 27 August by visual reconnaissance.

II COUNTER INTELLIGENCE

Security Coverage of Towns.

Initial security coverage has been made of the following towns by CIC Detachments of the 3rd and 45th Divisions:

Plan de la Tours	Les Arc
Lorgues	Vidauban
Salernes	Le Luc
St. Tropez	Cogolin
Collobrieres	Gonfaron
Carnoules	Pignans
Flassons	Cavalaire Surmer
Grimaud	Le Garde Freinet
Forcalquiret	Le Lavandou

III INTERROGATION REPORT

Summary of Interrogation of 11 men of Guard Unit MARSEILLES all either elderly or disabled, captured vicinity MARSEILLES 23 and 24 August.

Unit History and Mission:

The Guard Unit MARSEILLES (Marine) consisted of men who were recruited through the newspapers in Germany by a Civilian Protective Agency. Ostensibly the men were to work as civilians in France in telephone exchange as porters, etc., with the guarantee that they were to be employed solely in a civilian capacity wearing civilian clothes and could terminate their work at any time. Upon arrival in France they were informed that they were now under Military control, breaking of their contract was out of question, and anyone who stepped out of line was threatened with court-martial. In MARSEILLES these men were under the "Iron Fist" of a 1st Lt. REINIKE who ruled in any way in which he saw fit, disregarding any contacts which the men had signed and disregarding any pleas from their families that they be sent back home. The men were to guard clothing depots and stand guard at Marine warehouses.

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Unit Organization:

APO # M 40930 U

The Guard Unit consisted of 72 men. They were either disabled veterans or old men in their 60s or 70s. At first they were unarmed, but after December 1943 those who were able to carry weapons were armed with rifles.
Wages: 180 Mark per month was sent home to the families of the EM.
75 Mark per month was given them as spending money.

Morale:

All of the men were very disgruntled with their lot, and worried about their families back home.

They complained bitterly about the treatment they had received at the hands of the KRIEGSMARINE. Whenever they were sick they were put into the hospital and received only civilian sick pay. They were originally put into uniforms, but received no additional clothing as they were only civilians but when the KRIEGSMARINE needed men for guard duty or other jobs they were told they were military personnel and came under military law.

The men all feared the FFI, having been captured by them, and all claimed that members of their organization in MARSEILLES had been attacked by the FFI.

MISCELLANEOUS:

Prisoners were leaving MARSEILLES for Germany in 3 trucks. They had been asking their commanding officer for four weeks to let them go back home as they realized that conditions were turning against them in France. The Commanding Officer refused, even threatening them with court-martial. Near CHATEAUNEUF they were misdirected on the road and ambushed by FFI. Some were wounded and killed (among them their CO 1st LT. REINIKE) while the others were captured and turned over to our forces.

IV TECHNICAL NOTES.

New German Tiger Tank

Following are excerpts from a report from Northern France on the redo-signed Tiger Tank mounting the new 8.8 cm. Kw. K 43.

a. Armor

Glacis plate	150mm (5.9in) at 40° - 45° (in place of 102mm vertical plate of the earlier model)

b. Dimensions

Overall length (chassis)	23 ft 10 ins
Overall width	11 ft 11½ ins
Overall height (approx)	10 ft 2 ins

c. Weight 67 tons

d. Suspension

Front driving sprocket, rear idler, independent torsion bar springing with two steel rimmed rubber cushioned disc bogie wheels on each of the 9 axles on each side. The bogie wheels are interlocked with no return rollers.

e. Turret

360° traverse, Very long with bent side plates.

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f. Engine

So far not examined but the external construction and layout is similar to the Pz.Kw. Panther.

This model of the Tiger has not yet been reported in action in Southern France.

WILLIAM W. QUINN
Colonel, G. S. C.,
A. C. of S., G-2.

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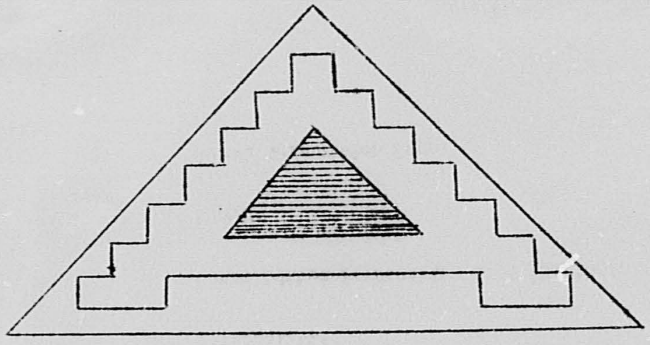
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TABLE OF CONTENTS

I Air

New German Plane Markings

II Communications

Road and Rail Bridges

III Personalities

Consolidated Personality List (Southern France)

IV Supply

German Ammunition Supply

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I AIR.

New German Plane Markings

A captured letter of the 894 Army Area Command, dated 31 July 1944, contains the following instructions:

A distinctive marking of our planes in the area WESTERN EUROPE (Germany, France, Italy) has been newly ordered as follows:

1. a. Single and twin engined fighters, bombers and reconnaissance planes: Black and white spiral on propeller hub.
   b. All other planes employed in combat: No special markings.

2. Captured Planes:
   a. If employed in combat: like No. 1.
   b. If not employed in combat: The outer third of wing undersides painted yellow.

3. Commercial aircraft: Entire motor hood and underside including elevators yellow, rudder yellow.

4. The new distinctive marking went into effect on 20 July 1944.

II COMMUNICATIONS

A. Road Bridges.

Location	Coordinate	Status	Date August	Source
VIENNE	X-980614	In	23	Photo Reconnaissance
LOYES	T-248049	In	23	" "
ST. MAURICE	T-264113	In	23	" "
AMBERIEA	T-323105	In	23	" "
PRIAY	T-292157	In	23	" "
VERTRIEA	T-337026	In	23	" "
SAULT-BRENAZ	Y-387996	In	23	" "
PONT DE BLAUYOISIN	Y-607650	In	23	" "
LES ECHELIS	Y-675541	In	23	" "
LA TERRASSE	J-829413	Out	23	" "
CONCELIN	J-846450	Out	23	" "
GRENOBLE	J-645265	Out	23	" "
GRENOBLE	J-645268	Out	23	" "
VALENCE	O-009957	Out	24	" "
PONT ST ESPRIT	N-825225	Out	24	" "
LE POUZIN	N-912759	In	24	Visual Reconnaissance
LE POUZIN	N-909756	Out	20	Photo Reconnaissance
ARLES	S-843558	Out	24	" "
TARASCON	S-864699	Out	25	" "
ARAMON	S-892797	In	25	" "
AVIGNON	S-977865	Out	25	" "
AVIGNON	S-999873	Out	17	" "
ROQUEMAURE	S-949997	Out	24	" "
PONT ST ESPRIT	N-849203	Out	24	" "
BOURG ST. ANDEAL	N-845326	Out	24	" "
DANZERE	N-879419	Out	20	" "
VIVIERS	N-877450	Out	24	" "
LA TIEL	N-870529	Out	24	" "
MONTELIMAR	N-885565	Out	24	" "
AVIGNON S.	S-987825	Out	21	" "
BOMPAS	T-073797	In	18	" "
CAVAILLON	T-166733	In	18	" "
PUBBARD	S-525756	In	22	" "
	S-518774	Out	19	" "
ST. ISADORE	S-516800	Out	19	" "
	S-5195	Out	17	" "
	S-533953	In	17	" "

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Location	Coordinate	Status	Date August	Source
	S-5497	Out	17	Photo Reconnaissance
	N-537032	In	17	" "
	T-067910	Out	22	" "
	S-862546	Out	24	" "
	S-835569	In	25	" "
	O-277330	Out	21	" "
	O-173281	Out	21	" "
LA VOULTE	N-936808	Out	20	" "
LIVRON	N-981771	Out	24	" "
PERTUIS	T-546568	Out	20	" "
	T-437616	Out	20	" "
BOURG DE PEAGE	J-136083	In	23	" "
	J-167083	In	23	" "
VINAY	J-427264	In	23	" "
ST. QUENTIN	J-503368	In	23	" "
DOMENE	J-745294	In	23	" "
ST. MAZAIRE	J-764320	In	23	" "
CHATEAU DU MAS	J-797355	In	23	" "
LE VILLARD	Y-862506	In	23	" "
LE GACHE	Y-869551	In	23	" "
GRENOBLE	J-659270 to J-677275	In	23	" "

B. Railroad Bridges.

ARLES	S-847564	Out	24	" "
TARASCON	S-862696	Out	25	" "
AVIGNON	S-962852	Approach Out	25	" "
AVIGNON	S-975825	Out	21	" "
PONT de L'ISERE	H-998025	Out	19	" "
LE POUZIN	N-908757	Out	20	" "
PONT ST. ESPRIT	N-827227	Out	24	" "
ST. GEORGE	N-962852	Out	24	" "
	N-863458	Out	25	" "
VAR VALLEY	S-522760	In	19	" "
VAR GATTURA	S-535872	Out	22	" "
VIENNE	X-980614	In	23	" "
LOYES	T-255063	In	23	" "
ANBERIEU	T-323105	In	23	" "
LES SUNES	J-623638	Out	23	" "
LYONS	All Bridges	In	23	" "
CHAMBORIGANO	N-316240	Out	19	" "
	J-837407	Out	21	" "
LA VOULTE	N-934803	Out	20	" "
	N-972095	Out	20	" "
LIVRON SUR DROME	N-968775	Out	24	" "
PERTUIS	T-587564	Out	20	" "
LA VOULTE SUR RHONE	N-933803	Out	24	" "
	T-8279	Out	15	Fighter/Bomber
	S-859545	Out	24	Photo Reconnaissance
	T-181962	Out	25	" "
TOULON W.	Y-794992	Out	22	" "
BOURG DE PEAGE	J-120067	In	23	" "
" " "	J-143082	In	23	" "
	S-835739	In	24	" "
	N-972095	Out	20	" "
LIVRON SUR DROME	N-968775	Out	24	" "
PERTUIS	T-587564	Out	20	" "

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III PERSONALITIES.

Consolidated Personality List (Southern France)

Name	Rank	Function Unit	Source & Date
ADAM	1st Lt.	CO 8/244 A. R.	PW 18 Aug
ALBIGER	1st Lt.	157 Res Div.	MIRS
ALLENT	Col.	Staff Off. 19th Army	AFHQ June 21
ALTHOFF	Lt. Col.	Lyons Area Cmdr.	AFHQ 6/21 44
AMANN	Maj.	G-3 157 Res Div	MIRS
ATHOS	Maj.	8 Res A.R.	AFHQ 6/21 44
BAESSLER	Maj Gen	CG 242 I.D.	IPW 16 Aug
BALTRUCH	Capt.	HQ 19th Army	AFHQ 22 Dec
BARTENWERFER	Lt. Col.	800 Admin Staff	IPW 18 Aug
BARTH	2nd Lt.	3/242 AR	IPW 16 Aug
BASSE-KORFT	Col.	Kmdtr P.U	AFHQ 17 Mar
BASSOMPIERE	Col.	Marseilles	AFHQ Apr
BAULT	1st Lt.	Kmdtr Nice	AFHQ Apr
[illegible]		894 Admin Staff	AFHQ 2 Apr
BAUSENHART	2nd Lt.	Asst G-3 244 I.D.	IPW 20 Aug
BECKER	1st Lt.	G-2 244 Div	IPW 20 Aug
BERGER (PW)	Capt.	C.O 62nd Corps	capt 18 Aug
BERGH, von	Maj.	CO II/934 GR	AFHQ 21 Jun
BERGMAIER	Capt.	Lyons Laison Staff	AFHQ 6 Feb
BERTRON	Maj.	Staff Off. 19 Army	AFHQ 18 Aug
BETTE	Capt.	Arty Staff Off.	Doc 19 Aug
BEUTSCHER	2nd Lt.	157 Res Div	MIRS
BIERINGER (PW)	Gen Ma.	Flk Admin Staff 800	capt 19 Aug
BLANKE	Lt. Col.	G-3 242 I.D.	Doc 19 Aug
BLASKOWITZ	FM	CG Army Group G	AFHQ Feb
BLATT	1st Lt.	Staff LXII Corps	IPW 18 Aug
BLUMETT	Maj.	Staff 19th Army	AFHQ 1 Dec
BODSCH	Maj.	Lyons Laison Staff	AFHQ 6 Feb
BOOSE	2nd Lt.	CO 262 AT Co 189 Div	PW 20 Aug
BONDEL	Col.	CO 29 Fortress Engr Bn	IPW 19 Aug
BOEMEN	Maj.	Staff 19th Army	AFHQ Jan
BOEMER	Maj.	Liason Staff Avignon	AFHQ 21 Dec
BOEMER	Capt.	Armament Control Avignon	AFHQ 21 Dec
BOGERMANN	Maj.	CO Annency L. Staff	AFHQ 4 Apr
BOJE	Maj. Gen.	Former CO 541 Laison Staff	AFHQ 19 Feb
BOLLE	Lt. Col.	Sig Off. XLII Corps	Doc 19 Aug
BORNK	Capt.	Comdg ILES DU FRIOUL	AFHQ 15 Oct
BOTSCH	Maj. Gen.	C of S 19 Army	AFHQ 23 Apr
BOUVERET	Capt.	G-1 244 I.D.	IPW 20 Aug
BRAND		244 AR	IPW 18 Aug
BRANDT	Maj.	(CLERMONT FERRAND) L. Staff	AFHQ 21 Jan
BRATZ	1st Lt.	564 Laison Staff	AFHQ Mar
BRAUN	Capt.	541 Laison Staff	AFHQ 23 Mar
BREITENBACH	1st Lt.	9th Fortress Stamm Bn (AOK 19)	capt 19 Aug
BRETTSCHNEIDER	Lt. Col.	G-3 244 I.D.	IPW 20 Aug
BRODOWSKI	Lt. Gen.	Clermont-Ferrand	AFHQ 8 Jun
BROSER	2nd Lt.	CO 262 Res AT Co.	IPW 20 Aug
BRUENDER (Bruendel)	Col.	CO 932 GR	IPW 20 Aug
BRUENKLEIN	Capt.	CO 5/501 AA Bn	IPW 19 Aug
BRUSSNER	Maj.	157 Res Div	MIRS
BUELOW v.	1st Lt.	2/757 GR	IPW 19 Aug
BUEX	Capt.	CO Landesschuetzen Bn 625	IPW 18 Aug
BUHRHARDT	Capt.	CO Ost Bn 661 (239 Regt)	IPW 17 Aug
BURKLE Dr.	Surgeon	III/244 AR	IPW 20 Aug
BUSCH Dr.	Capt.	Hq. 735 Laison Staff	AFHQ 19 Feb
BUSSARD	2nd Lt.	6/305 GR	IPW 19 Aug
CANTZLER	Lt. Gen.	Army Group G Toulouse	AFHQ 10 May
CHFREERER	1st Lt.	CO 5/627 Marine Arty Bn.	IPW 15 Aug
COLLET	Capt.	4/14th AA Bn	IPW 19 Aug
COURBIERE de RENE de l'HOMME	Lt. Gen	CO 338 ID	AFHQ 21 Jan
CZERMAK	Lt. Col.	CO 1291 Cm Arty Regt	Doc 19 Aug
DAEUNERT	Maj.	CO III/757	Doc 19 Aug

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Name	Rank	Function · Unit	Source & Date
DEMBOWSKI		Finance Sect 244 ID	IPW 20 Aug
DENNER-SAUGER	2nd Lt	157 Res Div	MIRS
DENNERT	Maj.	CO III/765 Inf Regt	IPW 16 Aug
DOERING	1st Lt.	LXII Res Corps	IPW 19 Aug
DOLCIUS	1st Lt.	8/933 GR	IPW 19 Aug
DORNBUSCH	Capt	502 Admin Staff	AFHQ 23 Mar
DOTTINGER	Maj.	CO Flak (Marseilles zone)	AFHQ 20 Mar
DRABER	Capt	Lyons Admin Staff.	AFHQ 6 Feb
DREWS		Lyons Liaison Staff	AFHQ 6 Feb
EBER	Capt	CO I/933 GR	IPW 19 Aug
EBERHARD	1st Lt.	Ordnance 244 I.D.	IPW 20 Aug
EBERLE	Lt Gen	Chief Engr S. France	AFHQ Feb
EBERT	Capt	7/934 GR	AFHQ 21 Jan
EHLERT	Maj.	Staff Off. 244 Arty Regt.	IPW 20 Aug
EICHAUER	2nd Lt.	157 Res Div	MIRS
ELSTER	Maj Gen	Liaison Staff 894	AFHQ 18 Mar
ENDLER	2nd Lt.	Adj 244 Sig. Bn.	IPW 20 Aug
ESTER	Capt	Supply Off. 735 Liaison Staff	AFHQ 19 Feb
FASSOLD	Maj.	BEZIERS	AFHQ 25 Feb.
FEHLER	2nd Lt.	8/765 GR	IPW 15 Aug
FETHKE	Capt	CO I/918 GR	Doc 19 Aug
FEUERZINGER	Capt	735 Liaison Staff	AFHQ 19 Feb
FLAA	Col.	QM 19th Army	AFHQ 21 Dec
FICK	2nd Lt.	9/917 GR	Fr 21 Aug
FIEDLER	Capt	Kmdtr Lyons	AFHQ 6 Feb
FIMMERN	Capt	QM 244 Div.	IPW 20 Aug
FINKENSTEIN	Lt. Col.	Lyons (Garrison CO)	AFHQ 21 June
FISCHER	Lt. Gen	Supply Off. (Marseilles area)	AFHQ 21 June
FISCHER (PW)	Maj.	Adj LXII Corps	capt 18 Aug
FLEICHUT(Fleischut)	Maj.	CO 481 AA Bn.	IPW 15 Aug
FOHNING	Maj.	Armency Kdtr.	AFHQ 20 Jan
FORSTER	1st Lt.	Adj 917 GR	Doc 19 Aug
FRANK	1st Lt.	I/305 GR	IPW 19 Aug
FRETTER-PICO	Maj Gen	CO 148 Res Div.	AFHQ 10 Mar
FRESEN	2nd Lt.	Adj III/244 Arty	IPW 20 Aug
FRICKE	Capt	CO I/934 Regt.	IPW 20 Aug
FRICKE	1st Lt.	2/244 Sig. Bn.	IPW 20 Aug
FRITZE	1st Lt.	99 Res Arty Bn.	MIRS
FROEHLICH	1st Lt.	CO I/Res Arty Bn 7	AFHQ 23 Dec
FROER (PW)	Maj	G-2 LXII Corps	capt 19 Aug
FROMBERG	Maj Gen	Liaison Staff CO (Clermont-Ferrand)	AFHQ 8 June
FUSSBERGER	Capt	CO II/765 Regt	IPW 15 Aug
GALLIS	Capt	CO 13/239 Res Regt.	IPW 16 Aug
GALLWITZ	Capt	CO 1038 Arty AT Bn.	IPW 17 Aug
GASTAR	Maj.	CO I/14 GAF AA	IPW 18 June
GAUL	Lt Col.	former CO 765 GR	Doc 19 Aug
GEBHARDT		157 Res GR	AFHQ 10 Feb
GEHRKE		CO II/917 GR	IPW 19 Aug
GEIER	1st Lt.	CO 7/917 GR	IPW 17 Aug
GEHLERT	Lt Col.	CO 147 Flak Bn.	AFHQ 2 Feb
GENTERBRUECK	Maj.	CO 6/556 AA Bn.	IPW 19 Aug
GEORGES	Col.	former CO 734 Liaison Staff	AFHQ 23 Mar
GERMAR	?	Adj 244 Arty Regt.	IPW 20 Aug
GESSWEIN	Capt	CO III/242 AR	IPW 19 Aug
BETTLER	Intendant	244 ID	IPW 20 Aug
GENZER	1st Lt.	Adj 242 AR	Doc 19 Aug
GILBERT	Gen Lt.	former CO 244 ID	IPW 20 Aug
BLAESER	2nd Lt.	1089 Field Tr Bn.	Doc 20 Aug
GOEBEL	Col.	CO 305 Regt.	IPW 19 Aug
BOETZ	1st Lt.	CO 4/242 AR	IPW 16 Aug
GOLDAU	2nd Lt.	Act. CO 12/933 GR	IPW 19 Aug
GRIFFEL	Maj.	CO II/1291 CA Regt.	Doc 19 Aug
GROHMANN (PW)	Capt	CO 10/1291 CA Regt.	IPW 15 Aug
GRUENE	Capt	LXII Corps	Doc 19 Aug
GRUENKE	1st Lt.	CO 4/114 AA Bn. (GAF)	IPW 19 Aug

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Name	Rank	Function	Unit	Source & Date
GRUNDMANN	Lt Col.	CO 918 GR		Doc 19 Aug
GUEMPEL	Col.	CO 308 GR		IPW 20 Aug
GUENTHER (PW)	Lt. Col.	QM LXII Corps		capt 18 Aug
GUTZER	Maj	Asst Int. 189 Div.		AFHQ 21 Jan
HAEHN	2nd Lt.	CO 7/765 GR		IPW 16 Aug
HAHN	Col.	CO 239 Res GR		AFHQ 27 Mar
HAMMER	2nd Lt.	157 Res Div		MIRS
HANCKE	Maj.	Bn. CO 239 Res GR		AFHQ 12 Apr
HANS	Capt.	CO III/ GR 239		AFHQ 25 Mar
HARTWIG	Capt.	CO Para Air Sig Bn 41		AFHQ Jan
HASSBERG	Maj.	Staff 19th Army		AFHQ 1 Dec
HAUKE	Capt.	CO 244 Sign Bn		IPW 20 Aug
HAUSCHILD	Capt.	QM 244 ID		IPW 20 Aug
HAUSTEIN V.		244 ID		AFHQ 29 Mar
HEED	Capt.	157 Res Div		MIRS
HEIN	2nd Lt.	157 Res Div		MIRS
HEINHARDT	Capt.	CO I/198 Ost Regt (IV/918)		AFHQ 8 May
HEINRICH	2nd Lt.	Adj 99/Res Mtn Regt 1		AFHQ Mar
HEISON	Capt.	CO Gestapo AIX LES BAINS		AFHQ Dec
HELL	Capt.	CO 3/1038 AT ARTY Bn		IPW 17 Aug
HENKE PW	1st Lt.	I/757 GR		capt 19 Aug
HERION	Capt.	Verb. Stab 998		AFHQ Mar
HERRENBRUCH		CO 28th Res Inf Regt		IPW 17 Aug
HERRMANN		Ordnance 244 Arty Regt		IPW 20 Aug
HILDEBRAND	1st Lt.	CO 2/917 GR		IPW 18 Aug
HILLE	Maj.	Staff Off. 242 ID		IPW 21 Aug
HILLTROPP	Maj.	Staff Off. 19th Army		AFHQ 18 May
HOEPPNER	1st Lt.	Co 4/Para Sig Bn 41		AFHQ Jan
HOFFMAN	Lt. Gen.	CG 277 ID		AFHQ Apr
HOLTHOFF		Naval O. Harbor Cmdr Toulon		doc 19 Aug
HOZER	2nd Lt.	CO 3/99/Res Mtn Regt 1		AFHQ 2 Apr
HOOK	Capt.	242 ID Res. Bn		AFHQ 23 Feb
HOPPACH Dr.	Maj.	Liaison Staff 590		AFHQ 6 Feb
HORETH Dr.	Surg.	Liais. Staff 541		AFHQ 19 Feb
HORNIG	2nd Lt.	Adj. 934 G.R.		IPW
HUDRIG	Maj.	Staff. Res Arty Regt 8		AFHQ 17 Mar
HUNDERT	Maj.	Supply, LXII Corps		Captrd doc. 8/14
JAENCKE	Capt.	CO 8/757 GR,		IPW 19 Aug
JACOB	Lt.	244 Arty Regt		IPW 20 Aug
JAKOB	Maj.	CO 244 Engr Bn		IPW
JANKUHN	1st Lt.	242 I.D.		doc 19 Aug
JEHRING	Capt.	Liais Staff 541		AFHQ 21 June
JORDA	Maj.	Staff 19th Army		AFHQ 17 Jan
JORDAN	Maj.	Liais. Staff 761		AFHQ 23 Oct
JOURDAN	Capt.	Adj. Liais. Staff 735		AFHQ 19 Feb
JUDENHOFFER	1st Lt.	Liais. Staff 998		AFHQ Mar
KAHL	1st Lt.	4/757		IPW 19 Aug
KALBE	1st Lt.	CO II/917 GR		IPW 17 Aug
KAMMER	Maj.	CO II/244 AR		IPW 20 Aug
KAPFER	1st Lt.	CO 98 Res Arty Bn		AFHQ 23 Dec
KAPLE	1st Lt.	CO 2/148 Fus. Bn		IPW 16 Aug
KAPPLER	2nd Lt.	I/98 Mtn. Inf. Bn		MIRS
KARL	1st Lt.	CO 338 AT CO		IPW 19 Aug
KAUTING		Adj 99 Mtn Res Bn		MIRS
KAVALLA	1st Lt.	Einiteit "VOELKER"		IPW 18 Aug
KERSCHING	2nd Lt.	157 Res Div		MIRS
KERSTEN	Maj.	CO Field Repl Bn 244		Doc
KESSLER (PW)	Col.	148 Res Div.		IPW 16 Aug
KESTNER	2nd Lt.	CO 14/918 GR		IPW 17 Aug
KIRSTEN	Col.	CO Liaison Staff 735		AFHQ 21 Jun
KITZMANN	1st Lt.	Liaison (LYON)		AFHQ 24 Nov
KLAGES Dr.	Vet.	244 Inf. Div.		IPW 20 Aug
KLEEMEIN	1st Lt.	5/305 GR		IPW 19 Aug
KLEIN	2nd Lt.	8 Res Engr Bn		Doc 23 Aug
KLINKE	Capt.	CO 12/1291 CA Regt		Doc 19 Aug
KOTTMEYER	2nd Lt.	Res GR Bn 163		Doc 20 Aug
KLUTZ	Lt. Col.	Staff Offcr 19 Army		AFHQ 18 May

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Name	Rank	Function	Unit	Source & Date
KNEITINGER	Lt. Col.	157 R.D.		AFHQ Dec
KNIESS	Gen	CG LXXXV Corps		IPW 18 Aug
KNORR	Maj.	G-3 LXII Corps		Doc 19 Aug
KOBITZI	Maj.	CO Res Mtn Inf Bn 99		AFHQ 15 Jan
KOCH	Capt.	CO 1/Landesschuetzen Bn 625		IPW 18 Aug
KOLB	1st Lt.	CO 12/917 GR		IPW 18 Aug
KOHLER	Capt.	CO 13/Res Gren R 157		AFHQ 12 Apr
KOENING	Maj.	HQ GR 933 GR		AFHQ 20 Mar
KOROBITZEN (PW)	1st Lt.	CO 1/661 Ost Bn		capt 17 Aug
KRAFT	1st Lt.	CO 3/148 Fus Bn		IPW 16 Aug
KRAFT	Capt.	CO 2/1038 Arty AT BN		IPW 16 Aug
KRAMBEN	1st Lt.	CO 3/918 GR		IPW 18 Aug
KRANICH	Maj.	CO V Sich Regt 95		AFHQ 2 Feb
KRAUSE (PW)	2nd Lt.	Adj I/933 GR		capt 19 Aug
KRAUSS	1st Lt.	2/Res Arty Bn 7		AFHQ 21 Dec
KRAUTHAUSEN	Maj.	Bn CO Regt 51 (Mtr Sig)		IPW 19 Aug
KRIEGEL	Capt.	CO 3/242 AR		IPW 16 Aug
KRIEGER	1st Lt.	CO 9/932 GR		IPW 18 Aug
KUHL	1st Lt.	1/244 Sig Bn		IPW 20 Aug
KUNZE	2nd Lt.	2/Res GR Bn 461		Doc 20 Aug
KUPKE (PW)	1st Lt.	G-3 LXII Corps		capt 18 Aug
KUSPEK	1st Lt.	157 Res Div		MIRS
KUTCHA	Capt.	CO II/244 AR		IPW 18 Aug
KUTSCHER	Capt.	CO II/AR 244		IPW 20 Aug
LADELMANN (PW)	Maj.	G-3 62 Corps		capt 18 Aug
LAHMER	Capt.	Staff LXII Corps		Doc 19 Aug
LAMPE	1st Lt.	CO 8/934 GR		AFHQ 21 Jan
LANG	Maj.	CO ?Bn Fortr Engr Bn 14		AFHQ 19 May
LANGE	Col.	CO 917 GR		IPW 19 Aug
LANGEN v.	Capt.	8 Res AR		AFHQ 25 Apr
LEEP	2nd Lt.	918 GR		IPW 17 Aug
LEONARD	1st Lt.	CO 2/933 GR		IPW 18 Aug
LIEBLICH	Capt.	G-4 148 Res Div		Doc 19 Aug
LIEBNIG	2nd Lt.	CO 14 8th Res. Regt		IPW 17 Aug
LIEL	Capt.	CO I/242 AR		IPW 16 Aug
LIESER	Navy Lt.	CO Marine Arty Bn 627		Doc 19 Aug
LINDEQUIST	Lt. Col.	Adj. 189 Res Div.		Doc 19 Aug
LOEHR	Col.	CO Flak Regt 69		AFHQ Feb
LOERTZER	Maj.	CO 244 Div Supplies		IPW 20 Aug
LOESSER	Maj.	CO 8 Res Eng Bn		Doc 19 Aug
LOPIZ (?)	Maj.	CO 1195 Arty Bn		IPW 16 Aug
LUNGWITZ	Maj.	CO 1195 Arty Bn		IPW 17 Aug
LUSCHNAT	2nd Lt.	3/305 GR Res		IPW 19 Aug
LUTZ	2nd Lt.	99 Mtn Res Bn		MIRS
MACKENSEN v.	1st Lt.	CO 14/917 GR		IPW 18 Aug
MAENNER	Capt.	I/305 GR		IPW 18 Aug
MANEKE	Col.	HQ 338 ID		AFHQ 27 Jan
MARSCHALL	Col.	CO 1 Res Mtn Inf Regt		MIRS
MARTIN	Capt.	CO I (98) Res Mtn Regt 1		AFHQ 11 Dec
MATTHES (PW)	2nd Lt.	CO 4/661 Ost Bn		capt 16 Aug
MAURER	1st Lt.	2/28 Res Arty Bn		IPW 19 Aug
MEIER	Maj.	CO I Bn 308 Regt		IPW 20 Aug
MEINSHAUSEN (PW)	Col.	Chief of Staff, LXII Corps		Capt 19 Aug
MEY	Lt.	157 Res Div		MIRS
MEYER	Capt.	CO 3rd Co Fortress Eng Bn 14		IPW 16 Aug
MEYER	Capt.	3/757		IPW 19 Aug
MEYER	2nd Lt.	Staff Res Gr. Regt		Doc 20 Aug
MILTZOW	?	242 Inf. Div.		IPW 21 Aug
MODEROW	Capt.	Supply, 19 Army		AFHQ Feb
MOECKEL (Killed)	1st Lt.	CO 10th Co., 765 Regt		IPW 16 Aug
MOMBERGER	1st Lt.	Adj. Army Coastal Arty Regt 1291		Doc 19 Aug
MORGENROT	Lt. Col.	CO 242nd Arty Regt		IPW 19 Aug
MORGENSTERN	1st Lt.	Res Gren Bn 217		Doc 23 Aug
MUKLAU	Capt.	Staff Offr, 19 Army		AFHQ 18 May
MUELLER	Capt.	8/99 Res. Mtn Inf. Bn		MIRS

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Name	Rank	Function Unit	Source & Date
MUNCHHOF	Capt.	CO 242 AT Co.	IPW 17 Aug
MUNKER	1st Lt.	III/244 AR	Doc 19 Aug
MULLER	Maj.	Staff, 19. Army	AFHQ Jan
MUNCHOW	Capt.	CO Cmdr., AT Co. 242	Doc 19 Aug
MUHRHAUPT	1st Lt.	CO 3/661 Ost Bn	IPW 17 Aug
NEIDACK	1st Lt.	CO IV/765 GR	Doc 15 Aug
NEULING	Gen d. Inf	CG LXII Corps	capt 18 Aug
NEUING	Capt.	CO 2 Landesschuetzen Bn 625	IPW 18 Aug
NIEPER	Col.	Arty Cmd 219	Doc 19 Aug
NOAK	Lt. Col.	CO 244 AR	IPW 20 Aug
OBERDORF	2nd Lt.	5/933 GR	IPW 19 Aug
OBERGRUBER	2nd Lt.	262 Res AT Co	Doc 20 Aug
OPPITZ	2nd Lt.	CO 1/242 AR	IPW 16 Aug
PAUL	Capt.	Liaison Staff 800	AFHQ Oct
PETERMANN	Maj.	Staff 19th Army	AFHQ 1 Dec
PETERSEN	Gen	CO IV G.F Corps	AFHQ 1 Jan
PFAFF	Col.	Intendent 189 Res Div	AFHQ 21 Jan
PFLAUM	Gen	CG 157 Res Div	AFHQ 12 Apr
PIONTEK (PW)	Capt.	CO I/1195 Arty Bn.	capt 17 Aug
POMMERING (PW)	2nd Lt.	7/757 GR	capt 18 Aug
PAUSE	1st Lt.	Adj 918 GR	Doc 19 Aug
PRECHTL	2nd Lt.	4 Mtn Inf. Bn 99	MIRS
PRESACHER	Col.	157 Res Div	MIRS
PREYER	Capt.	G-3 242 AR	Doc 19 Aug
RAEDERS	1st Lt.	CO I/917 GR	IPW 18 Aug
RAMISCH	1st Lt.	CO 9/51st G.F Sig Regt	IPW 16 Aug
RANCKE (or HANCKE)	Maj.	932 GR	AFHQ 21 Mar
REDZER	2nd Lt.	8 Res Arty Regt.	AFHQ 25 Apr
REHBOCK	Col.	CO 15 Res GR Regt.	IPW 22 Aug
REINHARDT	Col.	CO 157 Res GR	AFHQ 15 Aug
REITH	1st Lt.	CO 4/481 AA Bn	IPW 15 Aug
RELKES	1st Lt.	99 Mtn Res Bn	MIRS
REMBEINER	Col.	CO 917 Gren Regt	AFHQ 22 May
RENDER	??	933 GR	AFHQ 29 Mar
RENNER	Capt.	CO IV/918 GR	Doc 19 Aug
RESINGER	2nd Lt.	157 Res Div	MIRS
RICH	2nd Lt.	157 Res Div	MIRS
RIEFENBERG	1st Lt.	CO 6/934 GR	AFHQ 21 Jan
RICHTER	Capt.	Staff Res GR 239	Doc 23 Aug
RIEGEL	Capt.	CO 3/242 AR	IPW 16 Aug
RITTER	2nd Lt.	8/99 Res Arty Bn	MIRS
RODEWOLT (PW)	2nd Lt.	CO 4/194 Sich Regt	capt 20 Aug
ROESKE	Capt	CO Field Repl Bn 242	Doc 19 Aug
ROLIN	Col.	CO 933 GR	AFHQ 29 Mar
RUDLOFF	1st Lt.	Sig Co 157 Res Regt.	AFHQ 12 Apr
RUEDIGER	Capt.	Regtl HQ 305 GR	IPW 19 Aug
RUST	Capt.	III/1291 GA Regt	Doc 19 Aug
SALFELD	Maj.	CO I/244 Arty Regt	IPW 20 Aug
SALZWEDEL	Lt. Col.	LXII Corps	capt 19 Aug
SANDER Dr. (PW)	Oberazt	LXII Corps	capt 18 Aug
SANFTLEBEN	1st Lt.	3/917 GR	Doc 17 Aug
SANTHOFFEN	Lt.	99th Mtn Res Bn	MIRS
SAUERBIER	2nd Lt.	2/28 Light Res Arty Bn	Doc 20 Aug
SCHALOW	Capt	242 Engr Bn	Doc 19 Aug
SCHEIDER	Maj.	157 Res GR Regt	AFHQ 15 Jan
SCHERKL	Capt.	99th Mtn Res Bn	MIRS
SCHIEGEL	Maj.	7th Res Arty Bn	MIRS
SCHIKEDAN	2nd Lt.	CO 11/933 GR	IPW 20 Aug
SCHIPHANK	2nd Lt.	CO 2/327 Res Bn	IPW 18 Aug
SCHLEGL	Maj.	Res Arty Bn 7	AFHQ 12 Apr
SCHMIDT	Maj.	Staff, 19th Army	AFHQ Jan
SCHMIDT	Maj.	163 Reg Bn	IPW 17 Aug
SCHMIDT	1st Lt.	Res Gren Bn 444	Doc 22 Aug
SCHMIDT	2nd Lt.	CO 2/1195 Arty Bn	IPW 16 Aug

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Name	Rank	Function Unit	Source & Date
SCHITT	2nd Lt.	Res Arty Bn 8	AFHQ 25 Apr
SCHNEDLITZ, Von	Col.	L. O. 19th Army	AFHQ Feb
SCHOELER	Capt.	CO III/917 GR	Doc 19 Aug
SCHOENAGEL (P.W)	Lt. Col.	CO 765th GR	capt 17 Aug
SCHOERNIG	1st Lt.	6/933 GR	IPW 19 Aug
SCHOENFELD	Lt. Col.	CO 757 GR	IPW 16 Aug
SCHOLL	?	565 AA Bn	IPW 19 Aug
SCHONBORN	Maj.	244 I.D.	IPW 20 Aug
SCHONWETTER, Dr.	Vet. O	99th Mtn Inf Bn	MIRS
SCHUETZ	1st Lt.	Staff, Res Arty Regt 7	Doc 23 Aug
SCHULB	Capt.	CO 28 Res Arty Bn 189 Arty Regt	IPW 18 Aug
SCHRAUB (P.W)	1st Lt.	CO, Assault Div Co, 189 Div	capt 20 Aug
SCHUBERT	Capt.	157 Res Div	MIRS
SCHUBERT	Col.	CO Res Mtn Regt.	AFHQ 12 Apr
SCHUBERT	Lt. Col.	CO, 99th Mtn Res Bn	MIRS
SCHUELER	2nd Lt.	3/ Light Res Arty Bn 28	Doc 20 Aug
SCHUETZ	Capt.	242 I.D.	Doc 19 Aug
SCHULZ	1st Lt.	1048 Mobile Bn	Doc 19 Aug
SCHULTZE	Maj	C of S, 148 Res Div	AFHQ 10 Mar
SCHWABE	Capt.	CO II/934 GR	IPW 20 Aug
SEIDEL	1st Lt.	Res Gren Bn 164/8 Res GR	IPW 23 Aug
SEILE	1st Lt.	CO 2/661 Ost Bn (239 GR)	IPW 17 Aug
SIELAFF	2nd Lt.	10/932	
SILL	Capt.	CO I/932 GR	IPW 20 Aug
SIMON	2nd Lt.	CO 3/327 Res Bn	IPW 18 Aug
SIRAKOWSKY	?	757 GR	AFHQ 7 Jan
SKEBINSKI	1st Lt.	308 Regt	IPW 20 Aug
SLEITLE	Maj.	Staff 19th Army	AFHQ 1 Dec
SPAHT	2nd Lt.	5/305 GR	IPW 19 Aug
SPECKMEIER	1st Lt.	CO 5th Btry 481 AA Bn	IPW 16 Aug
STAHL	1st Lt.	CO 1/148 Fus Bn	IPW 16 Aug
STEFFINUS	Maj.	I/918 GR	IPW 18 Aug
STEIER	2nd Lt.	189 Res Div	Aug
STEIN	Capt.	CO II 242 AR	Doc 19 Aug
STEINRUCKE	2nd Lt.	Adj II/244 Arty Regt	IPW 20 Aug
STENGLIN Frhr. v.	Lt. Col.	CO 1st Bn. 933 Inf. Regt	IPW 20 Aug
STOBERER	Capt.	CO II/194 Sich. Regt	IPW 20 Aug
STROMEYER	Maj.	1197 Arty Bn.	Doc 19 Aug
STRUWER	1st Lt.	Adj 932 GR	IPW 20 Aug
SUCKER	Col.	CO Res Arty Regt 8	Doc 19 Aug
TEROK	2nd Lt.	CO 5/917 GR	IPW 18 Aug
THIMM	1st Lt.	II/305 GR	IPW 19 Aug
TIELSCH	2nd Lt.	Adj, 1st Bn 933 GR	IPW 20 Aug
TIEROLLER	Col.	CO 18 Flak Reg (Cavaillon)	AFHQ 10 Apr
TORNER	Maj.	Task force of 148 Div	IPW 22 Aug
TORNOW	Maj.	CO 327 Res Bn	IPW 18 Aug
TWIRDY (P.W)	1st Lt.	CO 4/148 Fus Bn	capt 16 Aug
TYROLLER	Lt.	Res Gren Bn. 179	Doc 23 Aug
TYROLE	Col.	CO 14 C.A Regt	IPW 18 Aug
UPITZ	2nd Lt.	CO of I/933 GR	IPW 18 Aug
VOGLER	2nd Lt.	LXII Corps	Doc 19 Aug
VOGT	Capt.	28 Res Arty Bn	Doc 23 Aug
VOIGT, Dr.		244 Inf. Div.	IPW 20 Aug
VOSS, Dr.	Vet	244 Inf. Div	IPW 20 Aug
WAENTIG	Capt.	CO 1190 Arty Bn	Doc 19 Aug
WAGNER	Lt.	99 Mtn Res Bn	MIRS
WARSTEL		933 GR	AFHQ 29 Mar
WEBER	Maj.	III/933 GR	IPW 19 Aug
WEBER	Capt.	CO II/933 GR	IPW 20 Aug
WEBER	2nd Lt.	5/765 GR	IPW 15 Aug
WEINDL	Pay M.	99 Mtn Res Bn	MIRS
WELLERSHAUS	1st Lt.	Supply, 242 I.D.	Doc 19 Aug
WENZLAFF	2nd Lt.	CO 13/917 GR	IPW 18 Aug

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C O N F I D E N T I A L

Name	Rank	Function Unit	Source & Date
.ERDICH	Maj.	Services, 157 Res. Div.	AFHQ 12 Apr
M.TH	Maj.	CO II/918	Doc 19 Aug
.ES.ELSKY	2nd Lt.	Adj I/24 Arty Regt	IPW 20 Aug
.ESTFAL	Maj.	CO GR 934	AFHQ 21 Jan
.IEBE	1st Lt.	CO 1038 AT Arty Bn	IPW 17 Aug
.IESE	Gen D/Inf	CO 19th Army	Doc 19 Aug
.INDISCH	2nd Lt.	Staff Res GR Regt 157	Doc 23 Aug
.OLFLE		933 GR	IPW 20 Aug
.OLICKI	2nd Lt.	Staff/Res Gr Bn 163	IPW 20 Aug
.UHICKE, Dr.	Surgeon	24h I.D.	IPW 20 Aug
.URTZ	1st Lt.	Adj 933 GR	IPW 20 Aug
ZENDER	2nd Lt.	1/305 GR	IPW 19 Aug
ZIL.FF	2nd Lt.	CO 10th Co. 932 Regt	IPW 20 Aug
ZOHN		933 GR	AFHQ 29 Mar

.DDITION.L

Name	Rank	Functions Unit	Source & Date
B.UM.NN	2nd Lt.	Div Train 1h8 Res Div	Doc 23 Aug
B.UMG.RTEL	2nd Lt.	Res Gren Bn 327	Doc 23 Aug
FISCHER	Capt.	1h8 Div	Doc 23 Aug
BERGE.NN	1st Lt.	Staff/Res GR Regt 8	Doc 23 Aug
DUSCHEK	1st Lt.	157 Res Div	Doc 23 Aug
G.LLE	2nd Lt.	Res Gren Bn 44h	Doc 23 Aug
GROEGER	1st Lt.	Res Gren Bn 327	Doc 23 Aug
H.RDEGEN	2nd Lt.	Res Mtn Arty Bn 79	Doc 23 Aug
HEINRICH	1st Lt.	99 Res Mtn Bn	Doc 23 Aug
HOFF.ANN	1st Lt.	Staff Res Arty Regt 8	Doc 23 Aug
DOSE	2nd Lt.	CO 14/15 Res GR	Doc 24 Aug
M.RCZEK	2nd Lt.	CO 2/8 Res Eng Bn	IPW 26 Aug
P.ULI (PW)	1st Lt.	Supply, 242 I.D.	capt. 22 Aug
J.HNE	Maj.	CO Div Supply, 242 I.D.	IPW 23 Aug
KRUEGER	2nd Lt.	1/305 GR	IPW 22 Aug
L.NZ	1st Lt.	4/933 GR	IPW 19 Aug
EMRICH	2nd Lt.	9/24h AR	IPW 20 Aug
KESSLER	Capt. (?)	CO III/24h AR	IPW 20 Aug
SEDLMEIER	1st Lt.	CO 13/157 Res Regt	IPW 21 Aug
WIMMER	1st Lt.	CO 14/157 Res. Regt.	IPW 21 Aug
SCHLF	1st Lt.	CO 13/932 GR	IPW 21 Aug
DULCZEUS	1st Lt.	CO 8/932 GR	IPW 21 Aug
MUELLER	Maj.	CO II/757 GR	FR 22 Aug
JENKE	Capt.	CO 5/757 GR	FR 22 Aug
THOMAS	Capt.	CO 6/757 GR	FR 22 Aug
H.NISCH	Capt.	CO 7/757 GR	FR 22 Aug
KELLNER	Capt.	CO 8/757 GR	FR 22 Aug
MUENTHEY	2nd Lt.	5/757 GR	FR 22 Aug
GL.SER	2nd Lt.	#6/757 GR	FR 22 Aug
SCH.IDT	2nd Lt.	II/757 GR	FR 22 Aug
SCH.EDLOTFEGER	2nd Lt.	CO 8/757 GR	FR 22 Aug
ROTHFUCHS	2nd Lt.	8/757 GR	FR 22 Aug
REDER	2nd Lt.	7/757 GR	FR 22 Aug
GLOCER		Paymaster 757 GR	FR 22 Aug
H.UTER (PW)	Capt.	Adj. 792 Laison Staff	capt 22 Aug
ST.UD.CHER	Capt.	CO I/194 Sign. Rgt	Doc 24 Aug
SCH.FFER	Gen Lt.	CG 24h Inf Div	AFHQ 30 May
SCHUBERTH	Genmaj.	CG 792 Laison Staff	capt 19 Aug
SPINDLER	1st Lt.	CO 1/217 Res Inf Bn.	IPW 21 Aug
HA.LER	Capt.	CO 3/217 Res. Inf Bn	IPW 21 Aug

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Name	Rank	Function Unit	Source & Date
ROTHENALD	2nd Lt.	CO 4/194 Sich Regt	IPW 22 Aug
SCHILLER	Capt.	CO 5/194 Sich Rgt	IPW 22 Aug
ERNST	1st Lt.	CO 6/194 Sich Rgt.	IPW 22 Aug
BIRKE	1st Lt.	CO 13/194 Sich Rgt.	IPW 22 Aug
HERMAN (PW)	Capt.	HQ/157 Res Rgt.	capt 22 Aug
KOLB	Maj	CO 172 Res Inf Bn.	IPW 22 Aug
REITH	Capt.	CO 217 Res Inf Bn.	IPW 22 Aug
STUBS	1st Lt.	I/932 GR	FR 22 Aug

LEGEND :

IPW - - Interrogation Prisoners of War
AFHQ - - Allied Force Hq. Publications
FR - - Army "B" Forces (French)

IV SUPPLY

German Ammunition Supply

A munitions investigation form from the CO of a battery of the 1190th Bn (GHQ) to the Bn Ordnance Section has been captured. This form is a pertinent comment on the quality of German ammunition being turned out at the present time. The Captain states in the document that out of a total supply of 4372 rounds of ammunition inspected, 1312 rounds, or 30%, were defective. He adds that in range practice on 13 July 1944, one out of every two rounds was a dud.

William W. Quinn
WILLLAM W. QUINN
Colonel, G. S. C.,
A. C. of S., G-2.

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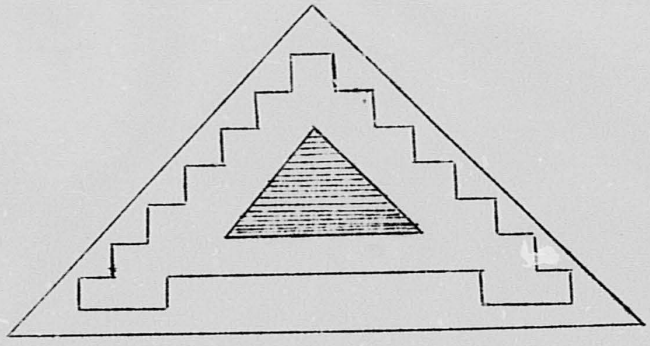
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Copy Nr. 120

To G-1, O.: Suggest we advise Corps to bring 7th Army up to date on CAF.
J.A.



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TABLE OF CONTENTS

I Air

Luftwaffe Dispositions

II Battle Order

Static Coastal Defense

III Communications

Demolitions

IV Terrain

Fords of the Durance

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This publication is designed to provide Seventh Army Units and Staff Sections with current enemy information which does not appear in any other widely disseminated publication. Although the contents are highly selected and screened, the title "Information Bulletin", is used in order to allow a wider latitude in the presentation of pertinent items which, in some instances, are not classed as verified intelligence.

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I. AIR.

Luftwaffe Dispositions in Southern FRANCE.

As of 20 August, the only apparent Luftwaffe reinforcements over the air order of battle of two weeks previous were about 25 single-engine fighters and part of a staffel (squadron) of long-range reconnaissance aircraft.

At the present time, therefore, there are about 40 operational single engine fighters in this sector with their bases believed to be VALENCE and LYON/BRON airfields. Photo cover indicates that the former bases of ORANGE/CARITAT and AIX LES MILLES are now unused.

The long range bombers now total about 80 aircraft, composed of approximately 65 JU-88's and 15 DO-217's. The DO-217's and some JU-88's are located at TOULOUSE/FRANCAZAL Airdrome. Other JU-88 bases, on 18 August, were LYON/BRON, VALENCE, MONTELIMAR and ORANGE/PLAN DE DIEU. However, it is believed that the latter three have been evacuated due to the proximity of Allied troops and that the bulk of the bomber force will be found at airdromes in the LYON and DIJON areas.

II. BATTLE ORDER.

Artillery Units Responsible for Static Coast Defense

of MARSEILLE - HYERES and CANNES - VILLEFRANCHE Sectors

A captured document dated end of May 1944, gives detailed information on artillery units and their respective number of guns responsible for the coast defense of the following sectors.

A. MARSEILLE - HYERES Sector

MARSEILLE.

1 battery Naval Artillery Battalion 611	- 4 guns
2 battery Naval Artillery Battalion 611	- 3 guns
4 battery Naval Artillery Battalion 611	- 3 guns
6 battery Naval Artillery Battalion 611	- 4 guns
7 battery Naval Artillery Battalion 611	- 6 guns
8 battery Naval Artillery Battalion 611	- 4 guns
2 battery Coastal Artillery Regiment 1291	- 4 guns
3 battery Coastal Artillery Regiment 1291	- 4 guns
4 battery Coastal Artillery Regiment 1291	- 4 guns
5 battery Coastal Artillery Regiment 1291	- 4 guns
Flak battery 10021	- 2 guns
Flak battery 10023	- 2 guns
Flak battery 10024	- 4 guns
1 battery Flak Battalion 597	- 3 guns

LA CIOTAT.

7 battery Coastal Artillery Regiment 1291	- 4 guns
8 battery Coastal Artillery Regiment 1291	- 4 guns
9 battery Coastal Artillery Regiment 1291	- 3 guns

BANDOL.

4 battery Artillery Regiment 244 *	- 3 guns
5 battery Artillery Regiment 244	- 3 guns
6 battery Artillery Regiment 244	- 3 guns

SANARY.

II Battalion Artillery Regiment 242 *,	-16 guns

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TOULON.

6 battery Naval Artillery Battalion 682	- 4 guns
7 battery Naval Artillery Battalion 682	- 4 guns
1 battery Naval Flak Battalion 819	- 4 guns
2 battery Naval Flak Battalion 819	- 4 guns
3 battery Naval Flak Battalion 819	- 4 guns
1 battery Flak Battalion 355) 3 battery Flak Battalion 355) 7 battery Flak Battalion 355) 8 battery Flak Battalion 355)	- Number of guns not reported.

HYERES.

1 battery Naval Artillery Battalion 627	- 4 guns
2 battery Naval Artillery Battalion 627	- 3 guns
2 battery Artillery Battalion 1197	- 4 guns

B. CANNES - VILLEFRANCHE Sector.

CANNES.

12 battery Coastal Artillery Regiment 1291	- 3 guns
13 battery Coastal Artillery Regiment 1291	- 4 guns

NICE.

1 battery Flak Battalion 497	- 5 guns
2 battery Flak Battalion 497	- 6 guns
1 battery Artillery Battalion 1194	- 4 guns

VILLEFRANCHE

2 battery Artillery Battalion 1194	- 4 guns
3 battery Artillery Battalion 1194	- 4 guns

* Note

It is reasonable to assume that the divisional artillery will be encountered in a tactical role in support of infantry battle groups rather than static coast defense. 4 battery of 242 Artillery Regiment has already been identified in the 36 Division sector.

III. COMMUNICATIONS.

Demolitions

Mediterranean Allied Photographic Reconnaissance Wing reports the following demolitions as of 20 August:

1. S.980863 One span of road bridge over R. RHONE at AVIGNON demolished.
2. N.849203 Road bridge across R. RHONE at PORT ST. ESPRIN demolished.
3. N.845326 Road bridge over R. RHONE at BOURG ST. ANDROL demolished. Piers remain and parts of 2 spans; third span on west side no trace.
4. H.879419 Road bridge over R. RHONE North of DONZERE demolished. Center piers only remain.
5. N.877451 Road bridge demolished.
6. N.930808 Road bridge at LAVOULTE SUR RHONE demolished.
7. O.009958 Road bridge over R. RHONE at VALENCE destroyed.
8. S.950997 Road bridge over R. RHONE at MONTFAUCON. Span on west side demolished; remainder partly damaged.

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9. N.981771 Road bridge over R. DROME at LIVRON partially destroyed.

10. T.546568 Road bridge over DURANCE blown at PERTUIS.

11. T.437636 Road bridge damaged.

12. N.908757 Rail bridge demolished at LE POUZIN blocking approach to road bridge over R. RHONE, which may also be damaged.

13. N.878452 This road bridge over R. RHONE does not exist.

14. N.870529 Road bridge over R. RHONE demolished.

15. N.904803 Rail bridge at LAVOULT SUR RHONE demolished.

16. N.972095 Rail bridge over R. AIGUES damaged by bombing.

17. N.968775 Rail bridge over R. DROME partially destroyed.

18. N.587564 Rail bridge across DURANCE, east of PERTUIS is blown.

19. N.885565 This road bridge over R. RHONE may be damaged but no definite statement on the very poor cover.

20. N.909756 Road bridge over R. VOULME damaged at LE POUZIN.

21. 0.003876 Marshalling at CHARMES SUR RHONE badly damaged by bombing. Rail tracks at choke point probably blocked.

(See also Section VII, Terrain and Communications, G-2 Information Bulletin, No. 6, 21 August 1944.)

IV. TERRAIN.

Fords of the DURANCE

AFHQ forwards the following data received from LONDON:

Reference Map: GSGS 4471, 1:50,000, Sheets XXX-42, XXXI-43.

Positions are given in Eastings only, following the course of the river from west to east.

Position	Condition
ROGNONAS Bridge 985 to 995	Sandy bottome, flat. Depth 1 ft. 8 inches favorable to fording.
995 to 034	Water shallow, but north bank steep and 6 to 16 ft. high.
034 to 035	Cross toward NE, rejoinging at point marked 28 on right bank 042.
054	Banks steep and high.
054 to 059	Fordable for approximately 550 yards.
059 to Bridge 072	Impassable
072 to 096	Impassable
096 to 135	Fordable, but no road approach.
135 to ORGON Bridge 180	Water deep and dangerous.

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Position	Condition
219	Fordable
219 to 222	425 yard stretch impassable due to deep holes.
222 to 230	Fordable
230 to 235	Dangerous
235 to 239	Fordable
239 to 241	220 yard stretch with holes
241 to 280	Fordable
280 to 282	Steep banks
282 to MALLEMORT Bridge 285	Fordable

WILLIAM W. QUINN
Colonel, G. S. C.,
A. C. of S., G-2.

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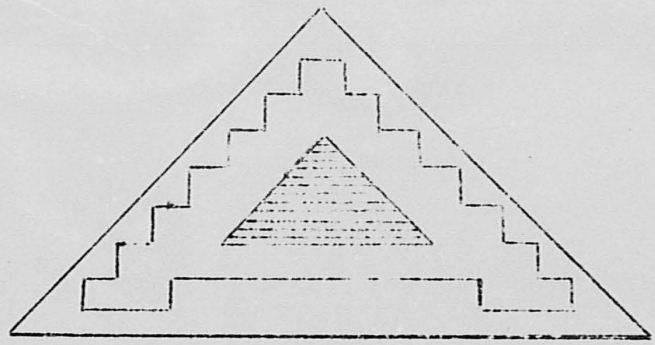
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20 August 1944

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T A B L E O F C O N T E N T S

I Battle Order Notes

242 Infantry Division

II Counter Intelligence

Sabotage
Resistance

III Morale

Reactions of PW to Plot in Germany

IV Personalities

Wiese
Baessler
Schaefer

V Psychological Warfare

Surrender Leaflets

VI Resistance

VII Technical Notes

Flamethrower Installation
Shell Mines

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This publication is designed to provide Seventh Army units and Staff Sections with current enemy information, which does not appear in any other widely disseminated publication. Although the contents are highly selected and screened, the title "Information Bulletin" is used in order to allow a wider latitude in the presentation of pertinent items which, in some instances, are not classed as verified intelligence.

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I. BATTLE ORDER NOTES

A. 242 INFANTRY DIVISION

A captured document dated 10 August gives the detailed organization of 242 Infantry Division.

242 Infantry Division Headquarters

Tank Platoon 22 (NOTE: It is surprising to find tanks in a Limited Employment Division. However, due to the large coastal sector for which the division was responsible, it is not unlikely that old or possibly captured tanks were assigned to the division).

Grenadier Regiment 917, consisting of 4 battalions, the 4th battalion an Ost Battalion, originally the 2nd battalion of 9 Armenian Regiment.

Grenadier Regiment 918, consisting of 4 battalions, the 4th battalion an Ost battalion, originally the 1st battalion of 198 Armenian Regiment.

Grenadier Regiment 765, consisting of 4 battalions, the 4th battalion an Ost Battalion, originally the 807 Azerbajanian Battalion. (NOTE: Over 2,200 PW's have been taken from this Regiment. It can therefore no longer be considered tactically as a regiment. Scattered remnants of this regiment are not larger than battalion size).

Artillery Regiment 242, consisting of 3 battalions.

Field Replacement Battalion 242

Engineer Battalion 242

Signal Battalion 242

Divisional Anti-Tank Co 242

Divisional Services 242

Administrative Company 242
Bakery Company 242
Slaughter Company 242
Medical Company 242
Veterinary Company 242
Military Police 242
Divisional A.P.O.

NOTE: From the document it appears that the following units were under command of 242 Infantry Division:

Pak Artillery Battalion 1038

Static (bodenständig) Artillery Battalion 1190

Static (bodenständig) Artillery Battalion 1191

Static (bodenständig) Artillery Battalion 1195

Static (bodenständig) Artillery Battalion 1197

Coastal Artillery Regiment 1291

Technical Battalion (Mot) 23

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B. Organization and Armament of 242 Artillery Regiment and artillery units under command 242 Infantry Div.

A captured document dated 24 July 1944 gives the following details:

Hq and Hq Btry, 242 Arty Regt:

I Bn, 242 Arty Regt:

Hq Btry
1st Btry)
2nd Btry) each: 4x100mm howitzers, Yugoslavian, (leichte
3rd Btry) Feldhaubitze 317) range 10.7 kms.
4th Btry)

II Bn, 242 Arty Regt:

Hq Btry
5th Btry)
6th Btry) each of these: 4x100mm howitzers, Italian, (leichte
7th Btry) Feldhaubitze 315") range 9.2 kms.
8th Btry) 4.105mm howitzers, French (leichte Feldaubitze 324") range 10.7 kms.

III Bn. 242 Arty Regt:

Hq Btry
9th Btry)
10th Btry) each of these: 4x100mm howitzers, Czech, (leichte
11th Btry) Feldhaubitze 14/19) range 9.6 kms.
12th Btry)

Attached Units for AA protection:

1x20mm AA Gun (Italian)
6x20mm AA guns (German) Model 30
8x20mm AA Guns (German) Model 38
1 AA Platoon, consisting of 4x20mm AA guns (German)
9x20mm AA Guns (Italian)

Attached Arty Units:

Arty Bn 1190: Hq Btry
1st Btry) each of these: 4x100mm Hfn Hows,
2nd Btry) Italian, (Gebirgshaubitze 316/1"),
3rd Btry) Range 9.2 kms.

Arty Bn 1191: Hq Btry
1st Btry: 4x152mm Gun Hows, Russian, (Kanonen Haubitze 433") range 17 kms.
2nd Btry: 3x152mm Gun Hows as in 1st Btry.
3rd Btry: 3x105mm guns (K18, 10cm) range 19 kms.

Arty Bn 1195: Hq Btry
1st Btry) each of these: 4x155mm Howitzers
2nd Btry French (schwere Feld Haubitze
3rd Btry) 414") range 11.3 kms.

Arty Bn 1197: Hq Btry)
1st Btry) each of these: 4x149mm howitzers
2nd Btry) (schwere Feld Haubitze 404"),
3rd Btry) Italian, range 14 kms.

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Attached units for
AA protection of the above: 1 AA platoon, consisting of 3x20mm AA guns
3x20mm AA guns, Italian
6x20mm AA guns, German, model 30
9x37mm AA guns, German

Note: 1 gun, belonging to 2nd Btry, 1191 GHQ Arty Bn, is undergoing repairs; will be ready shortly.

II. COUNTER INTELLIGENCE

A. Sabotage.

Signs have been put up along all principal wire routes with the warning that sabotage is punishable by death. No cases of any kind of sabotage have yet been reported.

B. Resistance.

The part played by the FFI has been of great military value, especially in the ST. TROPEZ area. Information given by them has led to many successful arrests. An exception to this was at STE. MAXIME where it was necessary to disarm local FFI members to prevent civil disturbances. This was done by the Security Militaire who turned the Arms over to the local FFI leader.

III. MORALE

Reactions of German Prisoners to the Recent Plot in Germany

(From "A" to Fifth Army G-2 Report No. 336)

The majority of prisoners captured on the Italian front during the first few days following the events of July 20th knew little or nothing of the upheaval inside Germany. Information had been withheld from them, or at best had reached them by way of rumors. Many prisoners heard the news first from Allied interrogators. Most of them were surprised that such a thing could happen, a few had expected it as an inevitable step following the recent series of German defeats. All were confused and unwilling to commit themselves one way or another.

German propaganda intervened as soon as the scope and danger had become evident. Captured documents show that the enemy expected a propaganda offensive from our side, and he moved to defend himself as well as he could. Goebbels's speech was rebroadcast over German military stations, and Hitler's address of July 20th was mimeographed and distributed among the troops. One of these copies, designed for distribution in 26th Pz Div, has been captured. While all prisoners agree that the revolt was an event of major importance with far reaching implications, many different opinions were expressed, which can be roughly divided into three main categories.

1. One group of young, inexperienced replacements, with Hitler Jugend indoctrination still firmly impressed on their minds, evidently believe every word of the propaganda line. Some are fanatical, but most of them are surprisingly naive. They feel that the plot was a dirty trick, played by a small group of thick-headed scoundrels, to remove the only man destined to see Germany through this war. Most of them hope for an early end, but few feel that Hitler would fail them. Some hope for a miracle; others condemn Hitler's advisers. The Fuehrer himself, however, enjoys the lofty position of a man beyond all reproach. Although it was easy to change the minds of most of these men, the fact that they initially believed in Hitler's innocence, is important at this point.

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2. The second group is headed by Volksdeutsche and other foreign elements from occupied territories, as well as Austrians, and, more recently, a number of discontented Germans. This group is outspoken in its disgust with the Hitler regime and the war, belligerent in its contempt of the German Army, and noisy in its disappointment in Hitler's escape from death. Interrogators quote comments such as: "I wish they had gotten rid of the bastard" and: "If the dog had only died." Independent action, however, cannot be expected from this quarter, as it is improbable that these men would run even the slightest risk. Most of their colorful abuses were probably voiced after their capture.

3. While the first and second groups are comparatively small, by far the majority of German soldiers show a surprising lack of concern. They feel things might have been better if the attempt had succeeded, but they don't know for sure. They all feel that the war has reached a point, where any change - short of a Russian invasion of German territory - would be welcome. A captured German officer admitted after some hesitation that the death of Hitler might have been as good a way as any to end the war. All prisoners feel sure that they would follow orders of the Army to lay down arms, even if contradictory instructions were issued by the SS, but all of this group agree that individual action would be suicide. The idea of the "little man" as a mere tool in the hands of the "big" is still a favorite German dramatization of adherence to the "Fuehrerprinzip". Little people have no right to decide or even think. They merely serve, and whoever wins in the struggle of the big will gain their loyalty. Prisoners insist that any revolt must come from a high level, while the little men at the front must serve silently as long as they are told to do so.

The effect of the revolt has been only partly demoralizing. Though some cheer at the Fuehrer's salvation and others see hope for an early end of the war, the bulk of the soldiers merely long for the day they can return to their families. They may recognize the plot as a sure sign of bigger events to follow but most of them have reached the point where they hardly care. German soldiers are afraid of Russia, but beyond a faint hope of keeping them from their soil they care little for Hitler, National Socialism, or the Greater German Reich.

IV. PERSONALITIES

A. Friedrich WIESE

CG 19 ARMY

5/12/92	Born Nordhastedt, Schleswig-Holstein, son of a civil servant.
19/14/18	Served in 65 Infantry Regiment.
Jan-Aug 1919	Member of the Iron Division of the notorious 'Freikorps'.
Sept 1919	Retired with rank of Lieut. of the Reserve, and joined Police.
1935	Rejoined the Army with rank of Major in 69 Infantry Regt.
1/6/1938	Promoted Lieut. Colonel, commanding II Bn, 116 Infantry Regiment.
1/6/41	Promoted Colonel.
23/2/42	Commanding an infantry regiment, awarded Knight's Cross to the Iron Cross.
25/3/42	Awarded German Cross in gold.

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1/9/42	Promoted Major General.
1/1/43	Promoted Lieut. General, commanding a Lower Rhenish Infantry Division.
1/10/43	Promoted General (Infantry).
24/1/44	Commanding 35 Army Corps, awarded Oakleaves to the Knight's Cross for fighting at GOMEL and S.W of ZHLOBIN.
July 44	Commanding General, 19 Army.

The Russians accused him of being responsible for atrocities at ZHLOBIN. Although there is no definite evidence that he is a Nazi, the fact that in 1919 he belonged to the notorious 'Freikorps' which was composed of the extreme Nationalist elements of the German Officer Corps, and from which many Nazis were recruited, suggests that he may have Nazi sympathies. His rapid promotion from Major General to full General in just over a year, with little evidence to account for it, also points to his being in favor with some high authority.

B. Erich BAESSLER

CG 242 Infantry Division

Born 1891 (?)

1/6/10	Gazetted Second Lieutenant.
1914-18	Served in 154 Infantry Regiment (5 Nieder-schles.)
1919	Retired with rank of Captain.
1/1/38	Promoted Colonel, in 65 Infantry Regiment.
6/10/41	Commanding 399 Infantry Regiment (170 Div), recommended for German Cross in gold.
1/1/42	Promoted Major-General.
May 42	Commanding 377 Infantry Division in KURSK sector.
Aug 43	Commanding 242 Infantry Division in Belgium.
June 44	Still commanding above division.

No reports on personality and no known connection with Nazi Party.

C. Dr. Gotthold SCHAEFER

CG 244 Infantry Division

Owing to the great number of officers of this name it is impossible to supply an early history, but it is likely that from 1938 onwards the following particulars are accurate.

1/4/38	Promoted Colonel, serving in O.K.W.
1939	In Defence Section III, Ministry of War.
19/1/43	Commandant of LILLE.
1/4/43	Promoted Major General.

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May 44 Commanding 244 Infantry Division.

No reports on personality. No known connection with Nazi Party.

V. PSYCHOLOGICAL WARFARE

Surrender Leaflets

PWB reports that a captured German Chaplain confirmed the value of multi-lingual leaflets. Many illiterate non-Germans took them to Frenchmen for explanation. The PW added that large numbers of these troops surrendered as a direct result of these leaflets.

VI. RESISTANCE

A PW from 5 Co, 757 GR, 338 Inf. Div., stated that his regiment was the only regiment of the division in this area and that the other two (758 GR and 759 GR) were last reported near LYON.

He believed that even if these two regiments were ordered back to this area, they would have difficulty returning because of partisan activity in watching roads and blowing bridges.

VII. TECHNICAL NOTES

A. Fougasse Emplaced Flame Thrower Installation

A position consisting of ten emplaced flame throwers has been encountered in vicinity of Villa du Bouchage (441188). These flame throwers were part of the local security of a 149 mm. coastal defense battery. Position was at top of gradual slope. Flame throwers were installed in mutally supporting pairs in a straight line, dug in immediately in front of a continuous double apron wire fence. Nozzles were directed at a 50 degree angle to the fence. Batteries of ten individual flame throwers were controlled from a single revetted switchboard position. Firing was by electrical circuit, with provision made for individual or simultaneous battery firing. All wiring was in wooden conduits only two inches below the surface, subject to easy destruction by mortar or artillery fire. Nozzles were only three inches above the surface of the ground and were well camouflaged with vegetation. The two flame throwers in each pair were installed six feet apart. Pairs were 45 yards apart.

One flame thrower has been fired. It projected a very hot flame to a range of 70 yards in a very moderate cross wind. Flame was six to eight feet wide and eight to ten feet high and was accompanied by a large cloud of smoke. This is a "one-shot" apparatus. Duration of burst was two seconds only and was preceded by the flickering of a three second delay magnesium ignition fuse. The flickering of this fuse was clearly visible. The direction of burning of this fuse - which is mounted just below the nozzle of the flame projector and in a direct line with it - indicates the direction of fire.

In the event flame throwers of this type are captured intact, the magnesium ignition fuse on the bottom of the nozzle should be severed from the nozzle in order to preclude accidental firing.

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B. Shell Mines.

In addition to more common types of enemy mines, six and eight inch naval shells, fitted with pull-igniter screwed in the nose and attached to a trip wire, have been encountered (see sketch, Annex No. 1).

William W. Quinn

WILLIAM W. QUINN
Colonel, G.S.C.
A. C. of S., G-2.

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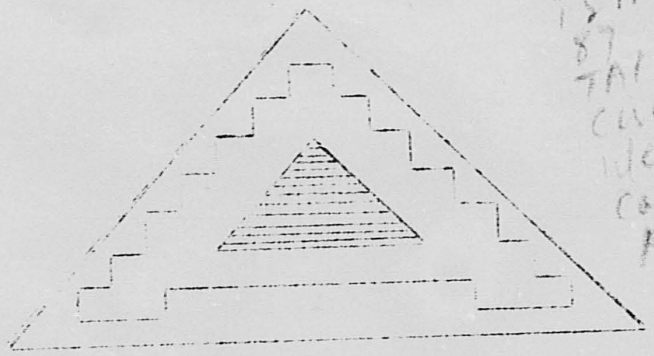
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TABLE OF CONTENTS

I Battle Order Notes

II Civil Affairs

III Defense Information

IV Documents

V Personalities

VI Resistance

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This publication is designed to provide Seventh Army Units and Staff Sections with current enemy information, which does not appear in any other widely disseminated publication. Although the contents are highly selected and screened, the title "Information Bulletin", is used in order to allow a wider latitude in the presentation of pertinent items which, in some instances, are not classed as verified intelligence.

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I. BATTLE ORDER NOTES.

1038 PAK Arty. Bn.

Unit was organized at GROSSBORN in June 44. Belongs to a series of similar units including 1037, 1038, 1039, 1040 PAK Arty Bn.

Organization:

3 Batteries of 3 sections each.

Weapons and Equipment:

3 - 88mm AT Guns in each Section (Total of 27 in Bn)
9 - Tractors (3 Italian) in each Battery.

Strength:

3rd Battery had 85 men on 15 August. Expected 15-20 replacements.

Ammunition:

900 shells for each gun in position. Additional 1000 rounds per gun were on the way but did not arrive due to recent bombings.

II. CIVIL AFFAIRS.

The Civil Affairs Officers with the Third Division have covered 13 towns. In each town the French Forces of the Interior were well organized and, no problems of replacement of public officials have arisen which were not handled by the F.F.I. The condition of these towns is good, the people healthy and enthusiastic. Food is likely to be the big problem in the near future.

The Airborne Division with one Civil Affairs Officer, took the town of LE MUYS. When the French Forces of the Interior said the Mayor had to be replaced, our liaison officer installed a substitute. Apparently the action was satisfactory to the local groups.

36th Division Civil Affairs Officers have been in ST. RAPHAEL, FREJUS, and DRAGUIGNAN. In each town the French Forces of the Interior were completely organized and prepared to take over the government, install a Mayor and care for civilian needs.

ST. RAPHAEL is only slightly damaged and has food and a hospital sufficient to care for its needs and those of the population of FREJUS, which was badly damaged and has no food. These towns, under their new Mayors and the French Forces of the Interior, are well-organized, and it is believed they will be efficiently run. The town of DRAGUIGNAN is also well-organized, the French Forces of the Interior having obtained control of it before the 36th Division arrived.

Gasoline and oil on a temporary basis have been secured to run the auxiliary power plants at ST. TROPEZ and STE. MAXIME. It is hoped that water and some light will be shortly available as a result. As yet the Medical and Displaced Persons problems have not been of any importance, as no large centers were uncovered and because little evacuation, in fact, had been done by the Germans.

Two banks function in temporary quarters in ST. TROPEZ and also the Caisse D'Epargne, with bank staffs intact and tax collectors present. $29,000 worth of freshly-printed French currency were captured on a German near LE MUYS. The supplemental currency is circulating freely with tradespeople. There is no apparent shortage of cash.

Ration cards used in ST. TROPEZ are the CARTE FAMILIALES issued by the COmmune, rather than those issued by RAVITAILLEMENT GENERALE. No overstamping of ration cards by local Mayors has yet been undertaken.

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Public health is generally normal. A bombing at ST. TROPEZ has put a strain on the hospital and medical facilities and has revealed a shortage of some medical supplies. Local medical statistics are poor but generally the situation appears to be in hand.

The postal system in the ST. TROPEZ and other areas is ready to function. The only delay is due to lack of transportation and lack of military censors. All between-town telephone and telegraph lines are apparently broken. Central office equipment is generally intact and merely requires power to put it into operation. Construction men are available to fix the lines when that becomes necessary and when their civilian use is militarily permissable. Efforts are being made to get the water running in those towns (ST. TROPEZ, STE. MAXIME and ST. RAPHAEL) where there have been stoppages. Diesel stand-by plants must be used for pumping in the absence of electric power and fuel must be secured from the army.

III. DEFENSE INFORMATION

The following information has been received from ground sources. It has not yet been confirmed on aerial photos, and is included here as a warning of the possible existence of the installations described.

The information covers the following map sheets in the following order:

XXXI-43, XXXII-43, XXXIII-42, XXXIV-42, 1/50,000
XXXII-43, 1/50,000
XXXIII-43, 1/50,000
XXXIV-43, 1/50,000
XXXII-44, 1/50,000
XXXIII-44, 1/50,000
XXXII-45, 5 & 6, 1/25,000
XXXII-45, 7 & 8, 1/25,000
XXXIII-45, 1/50,000
XXXIII-46, 1 & 2, 1/25,000
XXXIII-46, 5 & 6, 1/25,000
XXXIII-46, 7 & 8, 1/25,000
XXXIV-46, 5 & 6, 1/25,000

SHEET NOS. XXXI-43, XXXII-43, XXXIII-42, XXXIV-42, 1/50,000.

A secondary line of defense reported to exist as follows: COMPS (U-359652), CASTELLANE (U-357805), ROUGON (U-269747); thence N. side of VERDON River to GREOUX (T-855682); across the DURANCE River to MANOSQUE (T-770765), to MIRABEAU (T-675614) to PERTUIS (T-552597) to CADENET (T-445640). This line of defense consists of strong points and infantry concentrations.

SHEET NO. XXXII-43, 1/50,000.

(a) Construction work reported between PERTUIS (T-552597) and CADENET (T-445640, Sheet No. XXXI-43).

(b) T-5454 Route N. 561 mined for length of 500 meters.

(c) T-474456. 2 RR guns on 5 August on tracks at LA CALADE - EGUILLES station, 100 meters N. of grade crossing over route N. 7, 12 km. N.W. of AIX.

Date of information: 6 August Evaluation: B-2

SHEET NO. XXXIII-43, 1/50,000

T-795652. Trenches reported.
Date of information: 21 June Evaluation: B-3

SHEET NO. XXXIV-43, 1/50,000

Mines being laid along roads which connect DRAGUIGNAN and the NARTUBY valley and the Plateau of the BASSES ALPES.

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SHEET NO. XXXII-44, 1/50,000. (T 5242)

(a) AIX-en-PROVENCE.

In the town, at all major cross-roads, construction of M.G. blockhouses, with underground firing compartments, loopholes and embrasures 1½ feet above ground.

(b) LEGEND TO DEFENCE ANNEX "A".

1. T 51054105. Blockhouse on Rue VILLEVIEILLE commanding freight station and TRAVERSE de L'AIGLE D'OR.

2. T 51074110. Blockhouse on PLACE B. NIOLLON commanding COURS SEXTIUS and BOULEVARD de la REPUBLIQUE.

3. T 51204103. Blockhouse in front of CASINO MUNICIPAL and connected with it.

4. T 51284100. Blockhouse on PLACE MARECHAL PETAIN facing la ROTONDE and COURS MIRABEAU.

5. T 51304096. Blockhouse on PLACE MARECHAL PETAIN facing RUE LICE du COUR.

6. T 51354075. Blockhouse on AVE VICTOR HUGO, facing BOULEVARD DU ROI RENE, near HOTEL MODERNE (the latter occupied by Germans).

7. T 51534076. Blockhouse on BOULEVARD DU ROI RENE facing AVE VICTOR HUGO.

8. T 51274067. Blockhouse in front of station, connected with station garages, facing AVE BENJAMIN ABRAM.

9. T 51614070. Blockhouse at corner of COURS d'ORBITELLE AVE St. JEROME, and CHEMIN DU COTON ROUGE, facing latter two.

10. T 51624076. Blockhouse on Blvd. du ROI RENE facing Blvd. CARNOT.

11. T 52244170. Blockhouse at the end of COURS des ARTS et METIERS, commanding the AIX-RIANS Departmental Highway.

12. T 51674169. Blockhouse on PLACE BELLEGARDE, commanding the ROUTE DES ALPES.

13. T 51674203. VILLA MIGNOT on MONTEE St. BUTROPE is a Naval Headquarters. Residence of Admiral at VILLA PARADIS.

14. T 51164092. Blockhouse on AVE DES BELGES facing National Highway N. 8.

15 & 16. Pits prepared for the placing of mines.
Date of information: 24 April. Evaluation: B-2.

(c) T 494364. A/T ditch on both sides of the road North of the stream.

(d) T 497363. Armored train, carrying 380 mm gun at LUYNES Station on CARDANNE-AIX line. During alerts it moves into the tunnel.
Date of information: 28 June. Evaluation: B-2.

(e) At CADOLIVE (T 6027) road block consisting of vertical posts with concrete cubes leaving clear passage for 1 vehicle.

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SHEET NO. XXXIII-44, 1/50,000.

At T 875325, light German resistance point with trenches and several M.G.s being prepared at MAUFELDS farm, 4 km, S.E. of St. MAXIMIN.
Evaluation: B-2.

SHEET NO. XXXII-45, 5 & 6, 1/25,000.

Pointed concrete stakes, 2 m. 50 high and connected by barbed wire on road from NURSERIES-CASSIS between LOGISSON (T 563087) and MASSUGUET (T 583093).
Date of information: May. Evaluation: B-3.

SHEET NO. XXXII-45, 7 & 8.

Mines being laid on CUCUS plain.

Date of information: 26 April. Evaluation: B-3.

SHEET NO. XXXIII-45, 1/50,000.

Approximately T 780199, directly East of Vieille Chapelle there is an observatory of masonry construction surmounted by a glass rotunda. From this point there is an extensive view in all directions, as far as LA CIOTAT and SANARY. There is a small searchlight; no sound-detecting devices. Some telephone communications exist. Post vulnerable by air and land having no local defenses.
Date of information: 22 May. Evaluation: B-2.

SHEET NO. XXXIII-46, 1 & 2.

SANARY (Y 8297). Port closed to all circulation. Defense installations and camouflage erected. Newstands built on square. They hide small pill-boxes, well-constructed and well-armed. Road signs bear false directions.

SHEET NO. XXXIII-46, 5 & 6.

ST. MANDRIER Peninsula (Y 9292). Civilian population reported to be evacuated.
Date of information: April. Evaluation: B-3.

Scrapped ship at entrance to roads reported to be equipped with AA guns and searchlight.
Date of information: June. Evaluation: B-3.

SHEET NO. XXXIII-46, 7 & 8.

At LE PRADET (Y 990960) there were pyramidal blocks to close the road at CR 999964. There were also emplacements for mines at some location.

SHEET NO. XXXIV-46, 5 & 6.

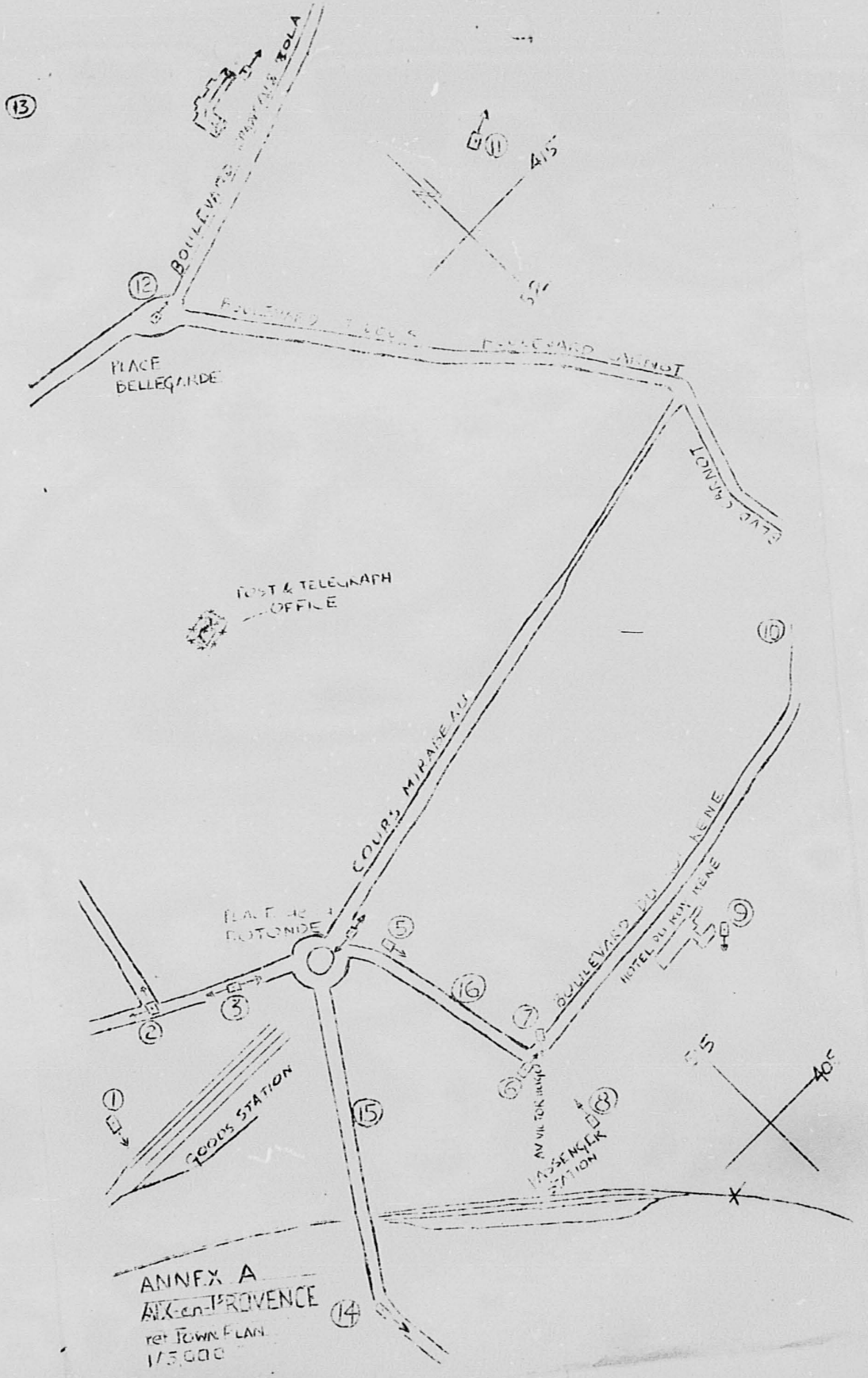
(a) LE CEINTOURON-PLAGE (Z 122963). The minefields indicated in area of LE CEINTURON are laid out in transversal lines and mines are from 3 to 6 meters apart. There are some extra-sensitive mines which will explode under the weight of a dog, and others explode under a weight of 30 kilos.
Date of information: March. Evaluation: B-2.

(b) Z 087940. At [illegible] Station, a blockhouse disguised as a dwelling.
Date of information: 15 April. Evaluation: B-2.

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IV DOCUMENTS

(From Captured Document)

189 Reserve Division
Section G-3/Sig
No 3998/44 secret

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List of Code Names of 189 Res Div
Valid from 0000hrs, 10 August 1944

Hq 189 Res Division	FEODOR
1089 Ambulance Plat	GARTENZAUN
1089 Field Hospital	ORGELPFEIFE
1089 MT Co	RITTERSPORN
1089 Div Ration Office	MARCHENBUCH
Div Repl Park	TIEFBILD
Horse Assembly Area	ZAUBERSPRUCH
Hq 21A Sig Bn	EDELWEISS
1 Co (Tel)	STUDENT
2 Co (Rad)	KURFUERST
Operations Hq HOMPHELLIER	RUTSCHBAHN
Strongpoint Commander SETE	MAULKORB
Hq 461 Res Gren Bn	INNERGRUBEN
1 Co	GRAUSCHIMMEL
2 Co	SPINAT
3 Co	KARPFEN
4 Co	PFEFFERKUCHEN
Hq 15 Res Gren Regt	WALDLAUS
Hq Co	BOTENFRAU
35 Res Inf How Co	VERKAUFSLAGER
262 Res Inf AT Co	HERRENKNOPF
15 Res Mort Co	BERENHEIN
Hq 163 Res Gren Bn	PROTESTANT
1 Co	GESANGBUCH
2 Co	OBERKELLNER
3 Co	HAENGELAMPE
4 Co	EMIGRANT
Hq IV (Fuss) Bn, 932 Gren Regt	VORZIMMER
1 Co	LEBERKASTEN
2 Co	RASIERMESSER
3 Co	KINDERGARTEN
4 Co	IRMGARD
Hq II Bn, 235 Arty Regt	KURSBUCH
Hq Btry	ARBEITEUER
4 Btry	DIENSTJAHR
5 Btry	RUDERBOOT
6 Btry	INSTRUMENT
7 Btry	FABELTIER
Hq 28 Lt Res Arty Bn	FEUERTAUFE
Hq Btry	BISZAPFEN
2 Btry	WOHNMOND
3 Btry	SCHLAFWAGEN
4 Btry, static Btry 1196	WANDERHALLE
Hq Engr Bn BOMMEN	SCHAUFERHUND
352 A Engr Co	MAIKAEFER
352 B Engr Co	GERMANIA

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Hq 1089 Fd Tng Bn	KIESEWETTER
3 Co	KRAUSADEN
4 Co	MEHLSUPPE
5 Co (Dtry)	FAHRENSTANGE
8 Fortress Recruit Co, Hq 19th Army	STACHELBEERE
52 Res Co for Inf Engr Plats	ADRESSBUCH

Only extracts of this code list are permitted forward of Regimental and independent Bn CPs. Such extracts must contain only those code names which are necessary for the communications of the respective units.

It is prohibited to make complete copies of this code list.

This list supersedes the old code list which will be destroyed as per AR-99.

Loss or compromise of this list must be reported to the Signal Officer, 189 Res Div without delay.

V PERSONALITIES.

Generalmajor BIERINGER

Generalmajor BIERINGER, Feldkommandant (Chief Administrative Officer) of the Var Department was captured at DRAGUIGNAN at 2200B 16 August.

When interviewed he confirmed the enemy order of battle as previously known and confirmed identification of the commanding generals of 148 Reserve Division and 242 Infantry Division. General NEULING, CG of 62 Reserve Corps, was located slightly north of DRAGUIGNAN, and General KNIESS, CG of Korps Gruppe Kniess, in the CAVAILLON area. BIERINGER knew that the 9 Panzer Division had moved north from AVIGNON, and had heard several days ago that another armored division, unidentified, had arrived in NIMES-AVIGNON area.

Bieringer gave himself up because French resistance elements had threatened to kill him and his entire staff. His efforts to persuade General Neuling to surrender were unsuccessful, Neuling replying that he had orders to fight to the end. (Note: Neuling, however, surrendered on 18 August and a report of his interview is reproduced below.)

Bieringer reported that General SODENSTERN had been relieved of command of 19 Army at same time as Field Marshal RUNDSTEDT was relieved of command in France, and had been replaced by General Wiese, described as a young fervent Nazi general.

According to Bieringer, the enemy was informed on 13 August that an Allied landing would take place on 15 August, but it was believed that the landing would be made in the GENOA area and the actual area came as a complete surprise. He expressed amazement at the speed of the American advance.

He confirmed Field Marshal ROMMEL's injury in Normandy in an attack by low-flying aircraft in which Rommel's driver was killed and the car overturned.

He did not believe in the possibility of revolution in Germany, since Himmler and the SS are in complete command of the army and replacement army, as well as German civilians. However, he foresees a "tragic end" for Germany.

General NEULING

General der Infanterie Neuling, commanding general of 62 Reserve Corps, was captured with his entire operational staff in the DRAGUIGNAN area at 0600 18 August.

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So far as he knew, only the rear echelon was still fighting. His communication lines to 19 Army were cut by our paratroopers, and only one overworked radio was functioning. He was impressed by the accuracy of American artillery fire.

MEULING was very secure and is a believer in HITLER. He had specific orders to fight to the last man and the last bullet.

VI RESISTANCE ACTIVITIES.

During the first two weeks of August a series of successful actions was fought by the F.F.I. in SAVOIE, culminating in the occupation of MOUTIERS (W) Z26. Enemy losses in action at MOUTIERS and NOTRE DAME DE BRIANCON (W) Z26 amounted to 10 killed and 74 prisoners. The enemy garrison at BOURG ST MAURICE (W) Z47, alarmed at the F.F.I's successes, withdrew in confusion over the COL PETIT ST BERNARD into ITALY. F.F.I. chiefs admitted that their success was partly due to the fact that the enemy had withdrawn a large number of troops from the department to take part in the big attack against the F.F.I in the VERCORS.

Reports from the area of the DROME south of the road CREST 017 - DIE 037 indicated that the enemy, having successfully dispersed the maquis on the VERCORS plateau in the course of his offensive, which opened on 21 July, did not intend to proceed with large scale mopping up operations. Later reports stated that the enemy was withdrawing his troops from the VERCORS altogether. It is difficult to make an accurate estimate of the situation in this area, but it is hoped that the F.F.I in the VERCORS will again be able to assist operations by harassing the enemy's lines of communication in the RHONE valley and on the ROUTE-NAPOLEON running SOUTH from GRENOBLE J62 to DIGNE.

Anti-sabotage teams in MARSEILLE, TOULON and SETE have sent back considerable information concerning German preparations for port demolitions. In MARSEILLE a number of blockships have already been sunk and others are available in the harbor to complete the blocking of the channels.

Half of the Armenian garrison at MENDE M94, comprising some 600 men, have deserted to the maquis. Difficulties of liaison between the Resistance Groups and Ost Legion troops have prevented many other foreign elements in the German army from doing likewise.

Sabotage of roads, railways and telecommunications has continued in S.W. FRANCE. Reports on 13 August spoke of the movement north from CASTRES Q94 of a panzer division, as well as an infantry division believed to be formed of German elements from the Eastern front. No Mk. VI tanks have been seen.

William W. Quinn
WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2

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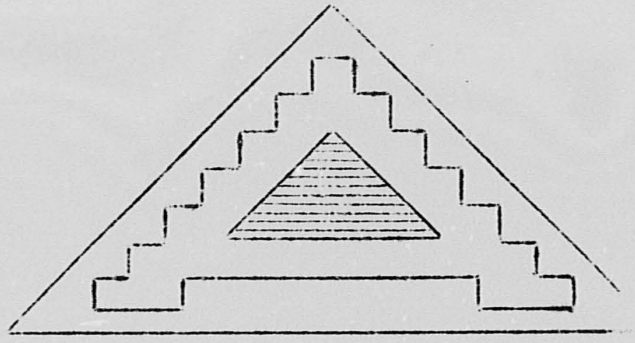
Capt Wiseman
Lt. Col Adams
Maj Smith

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No. 14

15 September 1944

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TABLE OF CONTENTS

I Communications

Road and Rail Bridges

II Battle Order

Personalities

III Counter- Intelligence

Interrogation of General Richter

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I COMMUNICATIONS

Road and Rail Bridges

The following additions and corrections to the Road and Rail bridge report listed in Section II "Communication", G-2 Information Bulletin No. 9, dated 27 August 1944 have been noted:

Road Bridges

Number	Location	Coordinate	Obstacle	Status	Date	Source
158	Besancon, E.	WC-837591	Doubs	Out	6	Photo
159	Vaire	WC-862611	Doubs	Out	6	Photo
160	Roulans	WC-917655	Doubs	Out	6	Photo
161	Baume	WP-040682	Doubs	Out	6	Photo
162	Longevelle	WP-252813	Doubs	Out	6	Photo
163	Colombier	WP-277818	Doubs	Out	6	Photo
164	Hyevre	WP-096713	Doubs	Out	6	G-2
165	Clerval	WP-140742	Doubs	Out	6	G-2
166	Auxonne	WC-303484	Saone	Out	10	Photo
167	Noirefontaine	WP-342704	Doubs	Out	8	Army B
168	Montbeliard	WP-3586	Canal du Rhone	Out	8	Visual
169	Fesches	WA-367810	Canal du Rhone	Out	9	Photo
183	St. Sulpice	WP-098930	Roggon R.	Out	13	G-2, 45 Div
184	Villargent	WP-125907	Le Grand R.	Out	13	G-2, 45 Div
185	Autray-le-Vay	WP-062898	Ognon R.	Out	13	G-2, 45 Div
186	Villersexel	WP-083919	Ognon R.	Out	13	G-2, 45 Div

Fords (In use by enemy)

5	Blussans	WP-220795	Doubs R.	In	13	G-2, 45 Div

Dijon (WC-0460) to St. Jean (WC-2237) Canal de Bourgoyne. All bridges reported out - September 9th, Visual.

Rail Bridges

569) 570)	Mulhausen, NE (Two bridges at the above point).	WV-725070	Stream	Out	6	Photo
571	Auxonne	WC-305479	Saone R.	Out	10	Photo

NOTE: Road Bridges.

a.	#161 Baume	WP-040682	Doubs R.	Replaced by Engr. Bridge 10th. Reported by XII TAC.
b.	Between WC-6642 and WC-6351		Doubs R.	New Bridge reported by VI Corps.

CORRECTION

Two pontoon bridges were previously listed as crossing the Rhine near BREISACH at WV-8836. There is only one pontoon bridge at this point.

II BATTLE ORDER

Personality List # 2

The following list of personalities supplements list # 1, published in G-2 Information Bulletin # 8, dated 25 August 1944.

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Name	Rank	Unit	Source
AHLE	1st Lt	CO 3/901 AA Bn	IPW, 36 Div, 25 Aug
ALBERT	1st Lt	in 198 Div (Fus Bn)	MIRS
ALBIKER	2nd Lt	1/7 Res Arty Bn	IPW, 45 Div, 29 Aug
ALLERS	1st Lt	CO 4/200 Sich	IPW, 7 Army, 9 Sept
ANDERSON	Colonel	CO 1716 AR	Doc, 6 Sept
ANGERMANN	1st Lt	Arty, 159 Res Div	IPW, 7 Army, 9 Sept
ASCHENBRUNNER	2nd Lt	CO 2/736 GR	VI Corps, 1 Sept
ASSIG	1st Lt	How Co, 8 Res Regt	Doc, 26 Aug
ASWEGEN v.	2nd Lt	CO Div Trains 61	Doc, 27 Aug
ARTSCHWAGER	1st Lt	Rations Offer. 932 GR	CSDIC, 27 Aug
AUST	1st Lt	in 8 Res Engr Bn	Doc, 26 Aug
BACH	Captain	CO 6/AR 8	1st ABTF, 30 Aug
BACHMANN	2nd Lt	Adj 198 Fus Bn	CSDIC, 31 Aug
BACKHAUS	2nd Lt	10/726 GR	VI Corps, 1 Sept
BADE	Brig. Gen.	CO 90 PGR Div	1st ABTF, 7 Sept
BAKKUS	Major	G-3 716 Inf Div	VI Corps, 1 Sept
BAEUMEL	Intendant	IV A in 62 Corps	CSDIC, 5 Sept
BAPTIST (FN)	1st Lt	CO 6/200 SICHERUNGS Regt	IPW, 7 Army, 4 Sept
BARSCH	1st Lt	CO 6/8 Res Regt	1st ABTF, 4 Sept
BARSCHPAENGER	Captain	CO II/8 Res Regt	1st ABTF, 4 Sept.
BARTH	2nd Lt	CO 3/242 AR	IPW, 45 Div, 16 Aug
BARUSCHKE (FN)	2nd Lt	on Staff 669 Eng Bn	IPW, 3 Div, 30 Aug
BASS	Captain	CO Hq 338 AR	CSDIC, 29 Aug
BAST (FN)	Captain	CO 5/63 Flieger Regt	IPW, 3 Div, 30 Aug
BAUER	Major	II/119 Pz Arty Regt	IPW, 3 Div, 29 Aug
BAUER	2nd Lt	II/15 Pz Regt	Doc, 27 Aug
BAUM v.	Sdf.	fmly Platzkmdtr. Grenoble	IPW, 7 Army, 7 Sept
BAUMAIN	2nd Lt	CO Div Trains, 148 Res Div	Doc, 23 Aug
BAUMANN, Dr	Surgeon	in 11 Pz Div	Doc, 27 Aug
BAUMGAERTEL	2nd Lt	in Res Gren Bn 327	Doc, 23 Aug
BAUMGOEFFLER	2nd Lt	II/15 Pz Regt	Doc, 27 Aug
BAUSCHKE	2nd Lt	CO 4/372 Res Gr	CSDIC, 4 Sept
BAYER	2nd Lt	CO 8/932 Gr	CSDIC, 27 Aug
BECHERER	2nd Lt	in Res Arty Bn 44 (II/8 Res Arty Regt)	Doc, 23 Aug
BECK	1st Lt	11 Pz Div	Doc, 27 Aug
BECK	2nd Lt	Regtl Sig Offr. CA Regt 1291	Doc, 6 Sept
BECKER	2nd Lt	Staff of II/1291 CA Regt	Doc, 6 Sept
BEHREND	1st Lt	CO Service Co, 11 Recn Bn	IPW, 45 Div, 5 Sept
BEHRENS	Captain	in 11 Pz Div	Doc, 27 Aug
BENNETT	Captain	CO 8/71 Flieger Regt	IPW, 36 Div, 1 Sept
BENGEL	Captain	CO 8/308 GR	IPW 36 Div, 29 Aug
BERGEMANN	1st Lt	Staff Res Gren Regt 8	Doc, 27 Aug.
BERGER	Major	II/119 Pz AR	Doc, 27 Aug
BERGER (FN)	Captain	in 62nd Corps	VI Corps, 1 Sept
BERLIEB	Captain	in 15/1291 CA Regt	VI Corps, 1 Sept
BERKEMER	2nd Lt	fmly in 198 I.D. (also brtkmdtr: Vendre)	Doc, 15 Aug.
BERLIEB	Captain	13/1291 CA Regt	Army B, 23 Aug
BERNDT	2nd Lt	CO 6/71 Flieger Regt	IPW, 36 Div, 2 Sept
BERNDT	1st Lt	I/AR 235	Doc, 6 Sept
BERNDT	2nd Lt	fmly MP Unit 547, Grenoble	Army B, 7 Sept
BERSCHWINGER	Captain	CO 8 Res Eng Bn	1st ABTF, 5 Sept
BESTGER	1st Lt	CO 5/9 Res Regt	IPW, 36 Div, 8 Sept
BEYER	2nd Lt	Pz Arty Regt 119	Doc, 27 Aug
BEYER	2nd Lt	2 (Assault) Co/AT Bn 61	Army B, 10 Sept
BIBITSCH	1st Lt	8/338 AR	CSDIC, 29 Aug
BIENIG	2nd Lt	CO 8 Res Eng Bn	1st ABTF, 5 Sept
BILLER	2nd Lt	5/338 AR	CSDIC, 29 Aug
BILO	1st Lt	CO 2/757 GR	IPW, 36 Div, 20 Aug
BINGER	Major	in 235 Eng Bn	IPW, 3 Div, 30 Aug
BLANK	Captain	in 11 Pz Div	Doc, 27 Aug
BLANK	2nd Lt	in Res Eng Bn 7	Doc, 26 Aug
BLAUEL	1st Lt	CO 6/III Pg Regt	IPW, 7 Army, 8 Sept
BLEI	2nd Lt	in 2/520 Recn Bn	IPW, 7 Army, 28 Aug
BODE	Major	CO 11 Pz Recn Bn	IPW, 36 Div, 24 Aug
BODE	Captain	Harbor Co: Toulon	CSDIC, 29 Aug

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Name	Rank	Unit	Source
BOEDICKE	1st Lt	Hq Co, 669 Eng Bn	IPW, 7 Army, 30 Aug
BOEDICKER	Major	in 11 Pz Div	Doc, 27 Aug
BOENSCH	1st Lt	CO 8/8 Res Regt	1st ABTF, 4 Sept
BOEHME	Captain	CO 116 Res Bn	Army B, 3 Sept
BOETTCHER	1st Lt	6/9 Res Regt	IPW, 3 Div, 8 Sept
BOHNE	Captain	Co Hq, Regt Kessler (148 Res Div)	CSDIC, 3 Sept
BOESHAGEN	1st Lt	5/346 AA Bn (GAF)	IPW, 45 Div, 6 Sept
BOETTCHER	1st Lt	7/326 GR	IPW, 36 Div, 9 Sept
BONNE	1st Lt	CO 3/116 Res Bn	Army B, 3 Sept
BONNET	Captain	CO 9/71 Flieger Trg Regt	IPW, 7 Army, 7 Sept
BORMEISTER	Captain	716 Sig Bn	Doc, 6 Sept
BOSER	2nd Lt	CO 2/15 Res Regt	Doc, 24 Aug
BOLLE	Lt. Col.	Sig Offr in LXII Corps	Doc, 19 Aug
BOOSE v.	Colonel	CO 31 Fd AA School (West)	CSDIC, 24 Aug
BORLINGHAUS	2nd Lt	11/1291 CA Regt	VI Corps, 1 Sept
BOTTCHER	1st Lt	CO 3/355 Res Bn	IPW, 7 Army, 9 Sept
BOUSSARD	2nd Lt	CO 6/305 GR	CSDIC, 28 Aug
BRACHT	1st Lt	in 11 Pz Div	Doc, 27 Aug
BRANDHORST	2nd Lt	1/7 Res Eng Bn	IPW, 45 Div, 29 Aug
BRANDT	1st Lt	1/57 Res Bn	IPW, 3 Div, 8 Sept
BREM	Captain	in 8 Res AR	IPW, 1st ABTF, 31 Aug
BREMER	1st Lt	6 Tp/481 Mixed AA Bn	CSDIC, 24 Aug
BRENDER	2nd Lt	in 1/669 Eng Bn	7 Army, IPW, 30 Aug
BREU	2nd Lt	CO, 14/71 Flieger Regt	IPW, 36 Div, 2 Sept
BREUER	Captain	in 481 Res Bn	Army B, 23 Aug
BRINKMANN	1st Lt	CO 4/9 Res Regt	IPW, 36 Div, 9 Sept
BROCKDORF v.	1st Lt	in 11 Pz Div	Doc, 27 Aug
BROSCHE	2nd Lt	in 2/1291 CA Regt	Doc, 6 Sept
BROZEK Dr.	ZAHLMEISTER	Liaison Staff 590, Lyon	Army B, 7 Sept
BRUCHLOS	1st Lt	CO 2/11 Pz Rcn Bn	IPW, 36 Div, 24 Aug
BRUCHLOS	1st Lt	Sign Offer, 11 Pz Rcn Bn	CSDIC, 3 Sept
BRUELKLEIN	Captain	5/501 AA Bn, 18 AA Regt (GAF)	IPW, 45 Div, 19 Aug
BRUGGER	2nd Lt	in 716 Div	Doc, 6 Sept
BRUECK	2nd Lt	11 Pz Rcn Bn	Doc, 27 Aug
BRUECKLEIN	Captain	CO 5/501/118 AA Regt (GAF)	VI Corps, 1 Sept
BRUSEKER	1st Lt	1/7 Res Arty Bn	IPW, 45 Div, 29 Aug
BUCH	Captain	in 157 Res Div	NIRS
BUCHHOLZ	1st Lt	Adj. in 11 Pz Rcn Bn	CSDIC, 30 Aug
BUDDE	1st Lt	Adj. 242 AR	Doc, 29 Aug
BUECHSE	1st Lt	3/625 LS Bn	IPW, 3 Div, 28 Aug
BUEX	Captain	CO 3/625 LS Bn.	IPW, 36 Div, 18 Aug
BUENGER	Major	CO I/Flieger Regt 22	Doc, 6 Aug
BUSCHE	Captain	CO 235 AT Bn	CSDIC, 2 Sept
BUTGERBIT	2nd Lt	Asst Adj. 759 GR	CSDIC, 28 Aug
BUTTLER	Major	III/200 Sich Regt	IPW, 7 Army, 9 Sept
BUTTNER	2nd Lt	10/98 Res Mtn Bn	IPW, 45 Div 29 Aug
BUTTNER	2nd Lt	Adj. II/736 GR	VI Corps, 1 Sept
CAUSEMANN	1st Lt	CO Stamm Btry 119 Pz Arty Regt	CSDIC, 1 Sept
CHILLE	Major	CO 326 GR	IPW, 7 Army, 30 Aug
CLABS	2nd Lt	Res Eng Bn 8	Doc, 26 Aug
CLAUS	2nd Lt	3/726 GR	VI Corps, 1 Sept
CLEVES	Captain	CO I/9 Res Regt	IPW, 36 Div, 9 Sept
CMYRAL	2nd Lt	4/192 Pus Bn	CSDIC, 31 Aug
COPATZ	2nd Lt	in 2/736 GR	IPW, 1 Sept
CROMPT	Captain	CO II/111 Pz GR	IPW, 29 Aug
CRONELS	1st Lt	CO 12/AT Bn 61	IPW, 9 Sept
CZEREIKS	Captain	Paymaster, 932 GR	IPW, 27 Aug
DAUSER	1st Lt	CO 1048 AT Co	IPW, 29 Aug
DARGE	Captain	in 189 Res Div	IPW, 1 Sept
DELINSKI	1st Lt	CO 2/308 GR	IPW, 29 Aug
DALHAUS	1st Lt	CO Hq/119 Freldreplacemekt Bn	IPW, 5 Sept
DAUM	2nd Lt	CO 2/326 I.D.	IPW, 15 Aug
DANKERT	2nd Lt	Adj. 2/333 AR	IPW, 29 Aug
DANNER (PW)	2nd Lt	2/235 Eng Bn	IPW, 30 Aug
DAW	2nd Lt	in 14/932 GR	IPW, 24 Aug

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Name	Rank	Unit	Source
DECKER	2nd Lt	Adj. II/1291 CA Regt	IPW, 3 Sept
DEILERT	Major	CO III/765 GR	IPW, 24 Aug
DELAVILLEYSE	Major	G-3, 338 Inf Div	IPW, 28 Aug
DEMBOWSKI	?	Finance Sect. 244 Inf Div.	IPW, 20 Aug
DEPTROLLER	Captain	in II/736 GR	IPW, 1 Sept
DIEHL	2nd Lt	CO 4/II/338 AR	IPW, 29 Aug
DICKS (F?)	1st Lt	CO 14/9 Res Regt	IPW, 9 Sept
DIEHER	2nd Lt	in 1/193 Fusilier Bn	IPW, 22 Aug
DIETMANN	2nd Lt	Adj. 917 GR	Doc, 29 Aug
DIETZE	Captain	in 11 Pz Div	Doc, 27 Aug
DIMLER	2nd Lt	CO 1/198 Fus Bn	IPW, 24 Aug
DOBROWOLSKY	2nd Lt	Asst Adj, 338 Inf Div	IPW, 28 Aug
DOLENMANN	2nd Lt	in 7/305 GR	IPW, 28 Aug
DOMASCHKE	1st Lt	Staff LXVI Corps	AFHQ, 26 June
DOMINIK	1st Lt	CO 4/646 heavy AA Bn	IPW, 30 Aug
DOPPLER	1st Lt	in 5/1291 CA Regt	IPW, 23 Aug
DRESEL	Captain	in I/736 GR	IPW, 26 Aug
DRESSLER	2nd Lt	Adj. 242 Div. Supply, Amm	IPW, 3 Sept
DREW	Maj. i.g.	11 Pz Div	Doc, 27 Aug
DRIESEN	?	MVCI Only Liaison Staff, Grenoble	IPW, 7 Sept
DUDDI	1st Lt	in 4/11 Pz Recn Bn	IPW, 23 Aug
DUFT	1st Lt	CO 3/1196 CA Regt	IPW, 7 Sept
DUSCHEK	1st Lt	in 157 Res Div	Doc, 23 Aug
DULCZIUS	1st Lt	CO 8/332 Regt	IPW, 21 Aug
DUSCHEK	1st Lt	in 157 Res Div	Doc, 26 Aug
DZIMINSKY	1st Lt	CO 1/308 GR	IPW, 22 Aug
EBBERS	1st Lt	CO Hq I/1291 CA Regt	Doc, 6 Sept
EGBLING	1st Lt	in 11 Pz Div	Doc, 27 Aug
EGBPT	Colonel	in 933 GR	Doc, 28 Aug
EGGELING	2nd Lt	in 11 Pz Div	Doc, 27 Aug
EIDAM (PW or F)	Captain	CO Hq/932 GR	IPW, 27 Aug
ELAESSER	2nd Lt	in 1/235 AT Bn	Doc, 27 Aug
ELRICH (PW)	2nd Lt	CO 5/244 AR	IPW, 20 Aug
ENGE	1st Lt	in 11 Pz Div	Doc, 27 Aug
ENGEL	2nd Lt	CO 14/Regt Kessler	IPW, 3 Sept
ERNERL	Major	CO 1196 Arty Bn	IPW, 7 Sept
ERB	2nd Lt	CO 1/235 AT Bn	IPW, 2 Sept
ERNST	?	CO 4/Res Bn 472	MIRS
ESCHRICH	Major	in 11 Pz Div	Doc, 27 Aug
FABER	Captain	in Liaison Staff 590, Lyon	IPW, 7 Sept
FAUL	2nd Lt	CO 2/200 Sich Regt	IPW, 9 Sept
FEHLER	2nd Lt	in 8/765 GR	IPW, 15 Aug
FEIGE	1st Lt	in II/119 Field Repl.Bn	IPW, 4 Sept
FESSLER	1st Lt	in 4/235 AR	Doc, 6 Sept
FELDER	Captain	in 148 Res Div	Doc, 26 Aug
FELBERT v. (PW)	Brig. Gen.	CO Feldkommandatur, Besencon	IPW, 28 Aug
FEIERABEND	1st Lt	in 3/668 Eng Bn	IPW, 29 Aug
FEIGL	2nd Lt	CO 5/119 Field Repl.Bn	IPW, 5 Sept
FICK	1st Lt	in 10/917 Regt	IPW, 21 Aug
FIEGUT	SS Hpt Sturmfuhren	in 2/30 Waffen SS Gren Div.	IPW, 7 Sept
FINK FHR v.	Lt. Col.	CO Regt in 198 I.D.	Doc, 6 Sept
FISCHBACH	SS Hpt Sturmbannfuhren	in 2/30 Waffen SS Gren Div,	IPW, 7 Sept
FISCHER	Captain	in 148 Res Div	Doc, 23 Aug
FISCHER	Major	CO I/15 Res Gr	IPW, 29 Aug
FISCHER	2nd Lt	Adj, 661 Ost Bn	IPW, 4 Sept
FISCHER	2nd Lt	CO Div Trains 61	Doc, 27 Aug
FITZ	1st Lt	fmly Liais Staff, Grenoble	IPW, 7 Sept
FLACKE	Lt. Col.	CO I/326 I.D.	IPW, 15 Aug
FLEISCHUT	Major	CO 481 AA Bn	IPW, 15 Aug
FOERSTER	2nd Lt	CO 1/326 GR	IPW, 1 Sept
FOERSTER	Capt. (Naval)	CO Harbor Command, NICE	IPW, 29 Aug
FORMER	Major	in 11 Pz Div	Doc, 27 Aug
FORSTER	2nd Lt	in 1/326 GR	IPW, 26 Aug
FOSCAMP	2nd Lt	Staff, 62 Corps	IPW, 5 Sept
FRANK	2nd Lt	CO 7/119 AR	Doc, 27 Aug

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Name	Rank	Unit	Source
FRANKE	Captain	CO III/1716 AR	IPW, 1 Sept
FRANKE	2nd Lt	7/119 Field Repl Bn	IPW, 5 Sept
FRANKEN	2nd Lt	in 11 Pz Div	Doc, 27 Aug
FRANZKE	2nd Lt	in Res Mt Arty Bn 79	Doc, 26 Aug
FRENZEL	1st Lt	in II/Res AR 8	Doc, 26 Aug
FREY	1st Lt	Staff, 7 Res Arty Regt	IPW, 29 Aug
FREY	2nd Lt	CO 3/198 Fus Bn	IPW, 31 Aug
FREY	1st Lt	CO 9/200 Sich Regt	IPW, 9 Sept
FRICK	2nd Lt	CO 5/1291 CA Regt	Doc, 6 Sept
FRITSCH	1st Lt	Adj. 116 Res Bn	IPW, 4 Sept
FULL	Colonel	CO 765 GR	IPW, 1 Sept
FRULLING	Colonel	CO 30 SS Div	Doc, 11 Sept
GABRIEL	Captain	CO I/1291 CA Regt	IPW, 23 Aug
GALLE	2nd Lt	in 444 Res Bn	Doc, 23 Aug
GANZ	Major	CO 2/30 Waffen SS Gren Div	IPW, 7 Sept
GAUSS	Capt	in 11 Pz Div	Doc, 27 Aug
GAYKO	Lt. Col.	CO I/Flieger Regt 91	Doc, 13 June
GEHLERT	Lt. Col.	CO 147 Flak Bn	IPW, 1 Sept
GEIGES	Captain	CO III/235 AR	Doc, 1 Sept
GEISELMANN (PW)	2nd Lt	Adj. 251 Res Regt	IPW, 9 Sept
GEISTER	1st Lt	in 11 Pz Div	Doc, 27 Aug
GEINET	1st Lt	CO 5/305 Regt	IPW, 9 Sept
GENSCH	2nd Lt	in 13/932 GR	IPW, 27 Aug
GERBETZ	1st Lt	CO 5/326 GR	IPW, 9 Sept
GERSTH	1st Lt	in 5/326 GR	IPW, 29 Aug
GESCHWANDTER	1st Lt	CO 1/406 Cst Bn	IPW, 9 Sept
GEWANDE	2nd Lt	in Res Inf Sig Co 252	Doc, 26 Aug
GIEBLER	1st Lt	CO Hq/9 Res Regt	IPW, 9 Sept
GIESLER	1st Lt	in Hq/9 Res Regt	IPW, 8 Sept
GILDEGER	Major	CO 209 Pz Eng Bn	IPW, 3 Sept
GIMPEL	Colonel	CO 308 GR	IPW, 24 Aug
GLASER	2nd Lt	CO 6/757 GR	IPW, 22 Aug
GLAUBE	1st Lt	CO 5/110 PGR	IPW, 10 Sept
GLOECKLE	2nd Lt	in 4/326 GR	IPW, 27 Aug
GLUECK	2nd Lt	in GR 305	Doc, 1 Sept
GLUSNER	Captain	in 7 Res Inf Eng Co	IPW, 29 Aug
GOECKE	1st Lt	CO 1/669 Eng Bn	IPW, 30 Aug
GOLDACKER	2nd Lt	in 11 Pz Div	Doc, 27 Aug
GOLINIK	1st Lt	in 3/338 AR	IPW, 29 Aug
GOLLER	Captain	13/Regt Kessler	IPW, 3 Sept
GONS	2nd Lt	in Pz Eng Bn 209	Doc, 27 Aug
GOSSENS	2nd Lt	Adm Off. IV/765 GR	IPW, 22 Aug
GOTSCHY (PW)	2nd Lt	Adj. 7 Res Engr Bn	IPW, 30 Aug
GRABOWSKI, Dr.	1st Lt.	12/1291 CA Regt	IPW, 1st Sept
GRAEBER	2nd Lt	in Pz Arty Regt 119	Doc, 27 Aug
GRAF	2nd Lt	Adj. 7 Eng Res Bn	IPW, 29 Aug
GRAIF	2nd Lt	CO 7/98 Res Jgr Bn	IPW, 1 Sept
GRANA	Lt	242 AR	Doc, 26 Aug
GRASER	Captain	Adj. to Gen. Maj. v. Felbert	IPW, 7 Sept
GREDE	1st Lt	CO 6/110 PGR	IPW, 1 Sept
GREIER	2nd Lt	in 9/98 Res Jager Bn	IPW, 30 Aug
GREIGER	2nd Lt	Adj. AT Bn 235	Doc, 1 Sept
GREIL (or KREID)	?	in 9/98 Res Mtn Bn	IPW, 29 Aug
GRIMM (PW)	1st Lt	in 4/198 Div Fus Bn	IPW, 29 Aug
GROBE	SDF	in MP 547, Grenoble	IPW, 7 Sept
GROEGER	1st Lt	in Res Gren Bn 327	Doc, 23 Aug
GROLTE	1st Lt	CO 6/110 PGR	IPW, 23 Aug
GRONHEID (PW)	1st Lt	in 1/90 Flieger Regt	IPW, ? Aug
GROSSJOHANN	Major	CO II/308 GR	IPW, 29 Aug
GROTHE Frhr V.	Lt. Col.	917 GR	Doc, 29 Aug
GROTH	1st Lt.	3/338 Eng Bn	IPW, 5 Sept
GRUBER	Pay Master	Staff 7 Res Arty Regt	IPW, 29 Aug
GRUMPT	Captain	CO II/111 PGR	Doc, 27 Aug
GRUEN	1st Lt	in 9/1291 CA Regt	Doc, 7 Sept
GRUENWALD	Major	in II/1716 AR	IPW, 1 Sept
GRUN	Captain	in 9/1291 CA Regt	IPW, 23 Aug
GUDERMANN	Captain	IV/Sich Regt 200	IPW, 8 Sept

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Name	Rank	Unit	Source
GUNTEL	Colonel	CO 308 GR	IPW, 21 Aug
GUTRIAN	Captain	AA Offr in charge of Battle Group, Gutrian	IPW, 29 Aug
HAAG, Dr.	Captain	Med Off, Hq II/338 AR	IPW, 29 Aug
HAAG (HAX?)	Colonel	CO 110 PGR	IPW, 27 Aug
HABERMANN	1st Lt	CO 3/200 Eng Bn	IPW, 3 Sept
HACHS	Colonel	in 110 PGR	IPW, 7 Sept
HACKENJAS	1st Lt	CO 4/765 GR	IPW, 1 Sept
HAASE	2nd Lt	in 1/235 AT Bn	IPW, 2 Sept
HAEFELE	Captain	CO I/AR 235	Doc, 1 Sept
HAFNER	Colonel	CO 736 GR	IPW, 10 Sept
HAHN	1st Lt	CO Hq II/119 AR	IPW, 2 Sept
HAHN	Gen. Maj.	CO Liais Staff, Lyon	IPW, 7 Sept
HALLER	Captain	CO 6/AR 235	Doc, 6 Sept
HALERIA	Captain	in 2/1291 CA Regt	IPW, 23 Aug
HALDORF	Captain	Adj. 1291 CA Regt	Doc, 6 Sept
HALSER	2nd Lt	157 Res Div	MIRS
HAMMERLA	Captain	2/1291 CA Regt	Doc, 6 Sept
HAMMERSTORFER	1st Lt	in III/119 Pz AR	Doc, 27 Aug
HANON	Lt. Col.	CO 119 AR	IPW, 24 Aug
HANEL	Major	CO Georgian Legion	IPW, 1 Sept
HANISCH	Captain	CO 7/II/757	IPW, 22 Aug
HANKE	Major	in Field Repl Bn of 148 Div	Doc, 3 Aug
HANSEN-GOOS	2nd Lt	in 669 Eng Bn	IPW, 30 Aug
HARDEGEN	2nd Lt	in Res Arty Mtn Bn 79	Doc, 23 Aug
HARDERING	2nd Lt	Pers Offr, 2/119 Pz Arty Regt	IPW, 1 Sept
HARTENBERG	Lt. Col.	CO 194 Sich Regt	IPW, 22 Aug
HASLINGER	2nd Lt.	fmly in 198 Div	Doc, 3 Sept
HEINAS	1st Lt	in 2/235 Sig Bn	IPW, 29 Aug
HEINE	Sdf.	fmly MP unit 547, Grenoble	IPW, 7 Sept
HEINRICH	1st Lt	in Res Mtn Bn 99	Doc, 23 Aug
HEINSOHN	1st Lt (Navy)	Harbor Master, St. Tropez	IPW, 29 Aug
HEINZ	2nd Lt	CO 10/933 GR	IPW, 7 Sept
HELD	Captain	CO 14/63 GAF Trg Regt	IPW, 24 Aug
HELDEL	2nd Lt	in 3/116 Res Gren Bn	IPW, 1 Sept
HELTMANN (PW)	2nd Lt	CO 13/251 Res Regt	IPW, 9 Sept
HENGSTENBERG	2nd Lt	in I/8 Res AR	Doc, 26 Aug
HEIN	Captain	CO 7/71 Flieger Regt	IPW, 3 Sept
HENSING, Dr.	2nd Lt	CO 4/326 GR	IPW, 15 Aug
HENDERSON	Paymaster	Liais Staff, 590, Lyon	IPW, 7 Sept
HERB	Chaplain	in 11 Pz Div	Doc, 27 Aug
HERB	Captain	in 10/AR 235	Doc, 6 Sept
HERDLER	2nd Lt	in 2/119 Pz Arty Regt	IPW, 1 Sept
HERING	1st Lt	in I/15 Pz Regt	IPW, 4 Sept
HERLON	1st Lt	CO 7/932 GR	IPW, 27 Aug
HERMS	Captain	in 148 Res Div	Doc, 9 Sept
HERMIG	?	in 157 Res Div	MIRS
HERZOG	2nd Lt	in C/1291 CA Regt	Doc, 6 Sept
HESS	1st Lt	in Res Gren Bn 372	Doc, 26 Aug
HESSELBARTH	2nd Lt	CO 18/765 GR	IPW, 19 Aug
HEUBERGER	1st Lt	in Res Mtn Bn 100	Doc, 23 Aug
HEYD	Major	in 8/Flieger Regt 63	Doc, 6 Sept
HILDEBRANDT	2nd Lt	Adj. III/1291 CA Regt	IPW, 3 Sept
HILGER	Lt. Col.	CO Lehrkdo, I Flieger Ansl. Div	Doc, 6 Sept
HINKE	2nd Lt	1/661 Ost. Bn	IPW, 4 Sept
HINKEL	2nd Lt	Sig Offr, 765 GR	IPW, 5 Sept
HIRSCH	1st Lt	CO 2/326 GR	IPW, 20 Aug
HIRTNER	1st Lt	CO 110 PGR	IPW, 1 Sept
HOCH	2nd Lt	CO Div Trains 1057	Doc, 26 Aug
HOECKER	2nd Lt	Div Supply Offr 338 I.D.	IPW, 28 Aug
HOEFFER	Major	CO 1/54 Res GR 213	MIRS
HOCKE	Captain	in Liais Staff, 590, Lyon	IPW, 7 Sept
HOELZEL	Lt. Col.	CO Hoelzel Regt, 159 Res Div	IPW, 9 Sept
HOEHN, Dr.	Colonel	CO 609 Supply Bn	IPW, 23 Aug
HOEMKE (P.)	Captain	CO 10/1129 Arty Regt	IPW, 3 Sept
HOESS	2nd Lt	in Res Mtn Jgr Bn 99	Doc, 26 Aug
HOFFMANN	1st Lt	in ResArty Regt 8	Doc, 26 Aug

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Name	Rank	Unit	Source
HOFFMAN	Captain	CO II/119 AR	IPW, 24 Aug
HOFFMANN	1st Lt	CO 2/7 Arty Bn	IPW, 26 Aug
HOFFMANN	Captain	in Res Jgr Bn 28	Doc, 26 Aug
HOFFMANN	Major	CO AR 235	Doc, 1 Sept
HOHNEYER	1st Lt	CO Mounted Platoon, 8 Res Regt	Doc, 26 Aug
HOHNKE	Captain	in 10/1291 CA Regt	IPW, 23 Aug
HOLST	Major	CO I/338 AR	IPW, 29 Aug
HOLZWARTH	2nd Lt	fmly in 198 Div	Doc, 3 Sept
HONKE	Captain	CO I/18 Flak Regt	IPW, 27 Aug
HOPF	2nd Lt	Adj. 765 GR	IPW, 19 Aug
HORNIG	2nd Lt	Adj, 934 GR	IPW, 20 Aug
HOTZ	1st Lt	Sig Off, 7 Res AR	IPW, 29 Aug
HRONEK	Captain	in 4/Sich Bn 698	Doc, 6 Sept
HUELLE, Dr.	Colonel	CO 751 GR	IPW, 15 Aug
HUEHNERMANN	Maj. Gen.	Field Liais Staff, 894, Avignon	IPW, 28 Aug
HUEBLIUS	2nd Lt	in 6/932 GR	IPW, 27 Aug
HUT	2nd Lt	in 14/326 GR	IPW, 29 Aug
IBRAHIMHOFF, Dr.	Surgeon	Med Offr in 765	IPW, 24 Aug
ISKOWITSCH (PW)	1st Lt	CO 2/57/251 Res Regt	IPW, 8 Sept
JAGER (PW)	1st Lt	CO 14/251 Res Regt	IPW, 9 Sept
JAKOB	Surgeon	Med Offr, Med Co/1057	Doc, 26 Aug
IANELLI	Lt (Ital)	in 242 AR	Doc, 26 Aug
JANKE	Major	CO Div Supplies 242 I.D.	IPW 23 Aug
JANNET	2nd Lt	in 1291 CA Regt	Doc, 6 Sept
JENSEN, Dr.	Surgeon	Asst Med Off Staff I/1291 CA Regt	Doc, 6 Sept
JUCKER	Colonel	CO 8 Res AR	IPW, 30 Aug
JUETTNER	Captain	in 1089 Fd Repl Bn	IPW, 1 Sept
JUNG	Chaplain	in 11 Pz Div	Doc, 27 Aug
JUNG	2nd Lt	CO HL/251 Res Regt	IPW, 9 Sept
KAEPPEL	1st Lt	in 11 Pz Div	Doc, 26 Aug
KAGEL	Captain	in 6/338 AR	IPW, 29 Aug
KAHLEN	Captain	CO II/Flieger Regt 71	Doc, 6 Sept
KAISER	Colonel	CO 326 GR	IPW, 26 Aug
KALBE	1st Lt	CO 11/917 GR	IPW, 17 Aug
KALTENHAEUSER	Captain	in 2/AR 235	Doc, 6 Sept
KAMMER, von der (PW)	Lt. Col.	CO 251 Res Regt	IPW, 9 Sept
KAMPMEIER	1st Lt	in III/1291 CA Regt	Doc, 26 Aug
KANNEGIESER	2nd Lt	Adj. II/932	IPW, 27 Aug
KAPLE	1st Lt	CO 2/148 Fus Bn	IPW 16 Aug
KARLSBACH	1st Lt	in 2/716 AT Co	IPW, 1 Sept
KAUBAYER	Captain	CO Btrg/Rekhsarbeitsdienst AA Bn 3356	IPW, 6 Sept
KELLER (PW)	Captain	in 62nd Corps	IPW, 8 Sept
KELLNER	2nd Lt	CO Guard Platoon 62nd Corps	IPW, 5 Sept
KELLNER	Captain	in 8/757 GR	IPW, 1 Sept
KELLNER	Captain	CO Battle Group 'Kellner'	IPW, 31 Aug
KERSTEN	2nd Lt	CO 4/736 GR	IPW, 10 Sept
KESSLER	Major	CO 61 AT Bn	IPW, 9 Sept
KESSLER	Captain	CO III/244 AR	IPW, 20 Aug
KESSLER (PW)	Colonel	CO 148 I.D.	Doc, 30 Aug
KESSLER	Major	in 11 Pz Div	Doc, 27 Aug
KIEVICZ (PW)	2nd Lt	in 8/917 GR	IPW, 30 Aug
KILLIN	Captain	Vet Offr, 759 GR	IPW, 28 Aug
KLAGES, Dr	Surgeon	Vet Offr, Hq/244 I.D.	IPW, 20 Aug
KLATTE (PW)	Captain	CO 1/338 AR	IPW, 29 Aug
KLEBCKLE	2nd Lt	CO 4/326 GR	IPW, 26 Aug
KLEWITZ (PW)	Captain	CO 2/8 Res GR	IPW, 7 Sept
KLEIN	2nd Lt	in Res Eng Bn 8	Doc, 23 Aug
KLEIN	1st Lt	Adj. 2/1291 CA Regt	Doc, 6 Sept
KLEINLEIN, Dr	Captain	in I/338 AR	IPW, 29 Aug
KLEINSCHROTH, Dr	Captain	Med Offr III/338 AR	IPW, 29 Aug
KLELE	2nd Lt	in II/110 PGR	Doc, 27 Aug
KLEINE	1st Lt	Adj. 336 Res Bn	IPW, 3 Sept
KLERNER	1st Lt	CO 3/61 AT Bn	Doc, 27 Aug
KLOTH	1st Lt	CO 13/766 GR	IPW, 26 Aug
KNAUER, Dr	Surgeon	in 1058 AT Bn	IPW, 1 Sept
KNIZIAN	Captain	CO II/244 AR	IPW, 8 Sept
KNOCKE	Colonel	CO 71 Flieger Regt, CO of Battle Group fr. 71 Fl / 338	IPW 2 Sept

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Name	Rank	Unit	Source
KNORR	1st Lt	in 11 PZ Div	Doc, 27 Aug
KOBBE v.	1st Lt	in Res Arty Bn 7	Doc, 26 Aug
KOCH	Captain	in 716 Eng Bn	Doc, 6 Sept
KOCH	1st Lt	in 3/AR 235	Doc, 6 Sept
KOCH	Captain	in IV/Signal Regt W.F.	Doc, 6 Sept
KOEBLE (PW)	2nd Lt	CO 14/308 GR	IPW, 29 Aug
KOEHLE, Dr.	Surgeon	Staff, III/1291 CA Regt	Doc, 7 Sept
KOENIG	Captain	CO II/9 Res Regt	IPW, 8 Sept
KOENIG	Captain	CO 355 Res Bn	IPW, 9 Sept
KOENIGSMANN	1st Lt	in AA Co of 148 Res Div	Doc, 9 Sept
KOHN	Captain	in II/AR 235	Doc, 6 Sept
KOHRBACHER	1st Lt	in 7/338 AR	IPW, 29 Aug
KOLK	1st Lt	in III/917	IPW, 21 Aug
KORFES	Colonel	in 726 GR	IPW, 1 Sept
KOPPE	2nd Lt	in 8/1291 CA Regt	Doc, 6 Sept
KORLEIS	1st Lt	in 1/901 AA Bn	IPW, 25 Aug
KORKHAUS	1st Lt	in 11 PZ Div	Doc, 27 Aug
KOSENS	2nd Lt	Construction Offr, IV/765 GR	Doc, 23 Aug
KOSSAK	1st Lt	CO 9/194 Sich Regt	IPW, 22 Aug
KOTZUB	Captain	CO ? Bn/Res AR 8	IPW, 30 Aug
KRAF	Major	CO I/736 GR	IPW, 10 Sept
KRATZ	1st Lt	in III/Sich Regt 200	IPW, 9 Sept
KRATZER	1st Lt	CO 6/308 GR	IPW, 28 Aug
KRAUSE	Captain	CO Bn/Reichsarbeitsdienst AA Bn 3356	IPW, 6 Sept
KRAUSS	Captain	in 716 Sign Bn	Doc, 6 Sept
KREBS	2nd Lt	Adj. IV/765 GR	IPW, 19 Aug
KREID (GREIL ?)	?	in 9/932 GR	IPW, 1 Sept
KRETE	1st Lt	CO 8/110 PGR	IPW, 28 Aug
KRETSCHEL	2nd Lt	in I/110 PGR	Doc, 27 Aug
KRIEGE	1st Lt	in 9/932 GR	IPW, 23 Aug
KROEGER	1st Lt	in 11 Pz Div	Doc, 27 Aug
KROMER	1st Lt	in 4/731 AA Bn	IPW, 29 Aug
KROG	1st Lt	Staff, 157 Res Div	Doc, 26 Aug
KRUEGER	2nd Lt	in Pz Div Trains 6	Doc, 27 Aug
KRUEGER	1st Lt	CO 6/625 Marine Arty Bn	IPW, 10 Sept
KRUEGER	2nd Lt	CO 1/305 GR	IPW, 22 Aug
KRUEGER	2nd Lt	in 2/669 Eng Bn	IPW, 30 Aug
KRUG	Colonel	in 736 GR	IPW, 1 Sept

Supplementary Personality List II

KUEL	2nd Lt	Adj. 327 Res Bn	IPW, 4 Sept
KUCH	1st Lt	CO 13/251 Res Regt	IPW, 9 Sept
KUELZ	Captain	Army Official, 562 Army Adm. Officer	IPW, 27 Aug
KUHLERMEIER	2nd Lt	CO 7/308 GR	IPW, 28 Aug
KUNERT	2nd Lt	CO in Co of Battlegroup Zworner (148 Div)	IPW, 23 Aug
KUNTZE	2nd Lt	1/461 Res Bn	IPW, 1 Sept
KUPFAHL	2nd Lt	CO 3/9 Res Regt	IPW, 8 Sept
KUPSCH	1st Lt	in Res Arty Bn 7	Doc, 23 Aug
KUSIEK	Surgeon	Med Offr, Med Co 61 in 11 Pz Div	Doc, 27 Aug
KUTNY	2nd Lt	in 6/1716 AR	IPW, 1 Sept
LADNER	2nd Lt	in 4/726 GR	IPW, 1 Sept
LAGO, Dr.	Vet (Ital)	in 242 AR	Doc, 26 Aug
LAMMERS, Dr.	Surgeon	Staff II/1291 CA Regt	Doc, 6 Sept
LANE	Colonel	in 917 Gren Regt	IPW, 26 Aug
LANG (PW)	2nd Lt	CO 3/67 Res Bn	IPW, 9 Sept
LANGE	2nd Lt	CO 13/71 Flieger Regt	IPW, 2 Sept
LANGENBACH	2nd Lt	Vet Offr, I/338 AR	IPW, 29 Aug
LANGENDOERFER	1st Lt	in 2/716 Eng Bn	IPW, 1 Sept
LANGER	1st Lt	in Liais Staff 590, Lyon	IPW, 7 Sept
LANGES	Colonel	CO 917 GR	IPW, 21 Aug
LANGNER	1st Lt	in 11 Pz Div	Doc, 27 Aug
LAUBE	1st Lt	CO 5/110 PGR	IPW, 22 Aug

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Name	Rank	Unit	Source
LAUFEN	2nd Lt	in 5/726 GR	IPW, 1 Sept
LAWPE	1st Lt	CO 4/933 GR	Doc, 23 Sept
LECH	1st Lt	CO 2/209 Pz Eng Bn	IPW, 3 Sept
LEGNER	1st Lt	CO 17/765 GR	IPW, 19 Aug
LEHMANN	1st Lt	CO 8/Flieger Regt 71	IPW, 7 Sept
LEHMANN	Stabs Intendant	in 11 Pz Div	Doc, 27 Aug
LEHMANN	Major	in II/726 GR	IPW, 1 Sept
LEHN	Major	in Liais Staff, Lyon 590	IPW, 7 Sept
LEMKE	Captain	in 242 I.D.	Doc, 29 Aug
LENK	2nd Lt	Staff 669 Eng Bn	IPW, 30 Aug
LERSTEDT	Captain	in I/11 PGR	IPW, 2 Sept
LESCH	1st Lt	CO 3/116 Gren Ers Bn	IPW, 3 Sept
LEUCHTER	Sdf	Liais Staff Lyon 590	IPW, 7 Sept
LEWENHAGEN	Captain	in 4/1291 CA Regt	IPW, 23 Aug
LAIBLE	Captain	CO 1/1196 Army Arty Bn	IPW, 7 Sept
LIBBE	SS Hpt.Stv.Fhrer	30 Waffen SS Gren Div	IPW, 7 Sept
LIEBEZEIT	1st Lt	CO Hq/765 GR	IPW, 22 Aug
LIEBIG	Captain	CO 6/200 Sich Regt	IPW, 9 Sept
LIES	1st Lt	CO 8/9 Res Regt	IPW, 8 Sept
LILL	2nd Lt	in Res Inf Eng Co 8	Doc, 26 Aug
LILLICH	2nd Lt	CO 6/736 GR	IPW, 5 Sept
LIMBACHER	1st Lt	CO 3(Flak)/235 AT Bn	IPW, 2 Sept
LINDEMANN	Captain	Adj. 338 AR	IPW, 29 Aug
LINK	Captain	in II AR 235	Doc, 1 Sept
LINK	1st Lt	in 2/119 Pz Arty Regt	IPW, 29 Aug
LITLOFF	Major	in 716 Inf Div	IPW, 1 Sept
LOCH	2nd Lt	in 11 Pz Div	Doc, 27 Aug
LOEP	2nd Lt	in 8/917 GR	IPW, 1 Sept
LORSON	1st Lt	Staff I/1291 CA Regt	Doc, 6 Sept
LUCKE	2nd Lt	in 11 Pz Div	Doc, 27 Aug
LUDINIA	2nd Lt	CO 2/372 Res Bn	IPW, 4 Sept
LUECKE	1st Lt	CO 4/736 GR	IPW, 1 Sept
LUEDTKE	2nd Lt	CO 2/726 GR	Doc, 4 Aug
LUHRSEN (?)	Captain	in 14/1291 CA Regt	IPW, 23 Aug
LUSCHNAT (PW)	2nd Lt	in 3/305 GR	IPW, 19 Aug
LUTTERMANN	2nd Lt	in 12/726 GR	IPW, 1 Sept
MACK	1st Lt	CO 15/63 GAF Trg Regt	IPW, 24 Aug
MACK	1st Lt	CO 2/235 GR	IPW, 9 Sept
MAIER	Major	in I/308 GR	Ipw, 24 Aug
MAIER	1st Lt	CO 1/235 Repl Bn	IPW, 9 Sept
MANSKE	?	in 71 Flieger Regt (GAF) Co of CT: Manske	IPW, 2 Sept
MARR	Major	CO I/757 GR	IPW, 23 Aug
MART	2nd Lt	CO 2/Turkestan Bn 781	IPW, 4 Sept
MARTEN	2nd Lt	Asst Adj. I/338 AR	IPW, 29 Aug
MARTIN	1st Lt	in 1/461 Res Bn	IPW, 23 Aug
MARX	2nd Lt	in 3/1291 CA Regt	Doc, 6 Sept
MAULER	2nd Lt	CO 3/326 GR	IPW, 26 Aug
MAY	2nd Lt	Transport Offr 7 Res Eng Bn	IPW, 30 Aug
MAYER	1st Lt	1/741 AA Bn	IPW, 22 Aug
MAYER	1st Lt	CO 1/235 Field Repl Bn	IPW, 9 Sept
MAXIMIENKO	1st Lt	CO 3/661 Ost Bn	IPW, 25 Aug
MEHLING	1st Lt	CO 14/932 GR	IPW, 27 Aug
MEHNER	Captain	in I/305 GR	IPW, 25 Aug
MEIER	2nd Lt	Staff 62nd Corps	IPW, 5 Sept
MENDT	Captain	in Liais Staff, Grenoble	IPW, 7 Sept
MENKE	Colonel	in II/90 GAF Regt	IPW, 29 Aug
MENKEL	Major	CO Bn/5 Cossak Regt	IPW, 7 Sept
MEHNER	Captain	CO I/305 GR	IPW, 30 Aug
MENZEL	Major	in 11 Pz Div	Doc, 27 Aug
MERK	2nd Lt	CO 6/119 AR	IPW, 24 Aug
MERK, Dr.	Major	CO II/200 Sich Regt	IPW, 9 Sept
MERZ	Major	G-2 244 I.D.	IPW, 21 Aug
METZ	Captain	CO 31 Fd AA School	IPW, 24 Aug
METZGER	2nd Lt	CO 5/308 GR	IPW, 29 Aug
METZNER	1st Lt	CO 6/901 AA Bn	IPW, 25 Aug

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Name	Rank	Unit	Source
MEYER RABINGEN	Lt. Gen.	CO 159 Res Div	AFHQ, 6 June
MEYER	2nd Lt	Adj. 235 AT Bn	IPW, 2 Sept
MEYER	1st Lt	Adj. II/1291 CA Regt	Doc, 6 Sept
MEYER	Captain	in 3/757 GR	IPW, 19 Aug
MICHEALIS	Captain	CO 1/199 Sich Regt	IPW, 7 Sept
MIKULA	1st Lt	in 3/1716 AR	IPW, 1 Sept
MOCKE	1st Lt	in 3/7 Res Eng Bn	IPW, 30 Aug
MOERGEL	Major	CO II/200 Sich Regt	IPW, 7 Sept
MOGSCHAN (FN)	Captain	in III/933 GR	IPW, 21 Aug
MOHAUPT	1st Lt	in 3/661 Ost Bn	IPW, 25 Aug
MOLLER	Lt. Col.	42 Veh. Maint. at Lyon	IPW, 29 Aug
MOMBERGER	1st Lt	Adj. 1291 CA Regt	Doc, 18 Aug
MORHAUPT	2nd Lt	CO 3/661 Ost Bn	IPW, 4 Sept
MOSER	Major	CO III/63 GAF Trg Regt	IPW, 24 Aug
MOSER	1st Lt	CO 7/9 Res Regt	IPW, 8 Sept
MUEHLER	1st Lt	CO 10/110 Field Repl Bn	IPW, 3 Sept
MUELLER	Captain	Asst CO 669/Army Transport Bn	IPW, 6 Sept
MUELLER	1st Lt	CO 5/932 GR	IPW, 27 Aug
MUELLER	Major	CO 759 GR	IPW, 5 Sept
MUELLER	Major	CO II/757 GR	IPW, 27 Aug
MUENCH	2nd Lt	in III/1291 CA Regt	IPW, 1 Sept
MURAWETZ	SS Sturmfhrer	in 2 Regt of 30 Waffen SS Gren Div	IPW, 7 Sept
MUNSKE	Colonel	CO 92 Flieger Regt	Doc, 13 June
MURTFELD	1st Lt	in Liais Staff Lyon 590	IPW, 7 Sept
MUSCHEID	2nd Lt	in 11 Pz Div	Doc, 27 Aug
NAKE	Gen. Maj.	CG 159 Res Div	IPW, 8 Sept
NATUSCH	Colonel	in 82nd Corps	IPW, 5 Sept
NEBELING	2nd Lt	Supply Offr. in 765 GR	IPW, 19 Aug
NEHR	2nd Lt	Operation Offr, Hq 765 GR	IPW, 22 Aug
NEUBER	Captain	CO II/305 GR	IPW, 28 Aug
NEUENHOFF	1st Lt	CO 1/716 AT Bn	IPW, 1 Sept
NEUGEBBAUER	Asst Surg	Med Offr, Med Tr 61	Doc, 27 Aug
NEUL	1st Lt	in 9/917 GR	IPW, 21 Aug
NEUMANN	2nd Lt	Adj. 372 Res Bn	IPW, 4 Sept
NEUMANN	Captain	in 8/1291 CA Regt	IPW, 23 Aug
NEUMANN	Colonel	CO 111 PGR	IPW, 30 Aug
NEUMANN	2nd Lt	G-4 239 Res Regt	IPW, 3 Sept
NICKEL	1st Lt	in I/338 AR	IPW, 29 Aug
NIEDERWALD	2nd Lt	Adj. 198 Fus Bn	Doc, 23 Aug
NIEDLICH (repl by Maj. Zwirne)	Lt. Col.	CO 14/8 Res GR	IPW, 25 Aug
NIESKENS	2nd Lt	Adj. 716 Sig Bn	IPW, 1 Sept
NOVAK	Colonel	CO 244 Arty Regt	IPW, 20 Aug
NUTZ	2nd Lt	fmly in 198 Div	Doc, 15 Aug
ODOF	2nd Lt	CO 5/933 GR	IPW, 30 Aug
OESTREICH (FN)	1st Lt	Adj. 239 Res Regt	IPW, 3 Sept
OEL	Captain	in I/85 Mtn Regt	IPW, 9 Sept
OHLDORF	2nd Lt	CO 5/933 GR	IPW, 29 Aug
OPOLKA	1st Lt	fmly in 148 Res Div	Doc, 9 Sept
OSWALD	Captain	CO 4/765 GR	IPW, 19 Aug
OSWALD	2nd Lt	in I/111 PGR	Doc, 27 Aug
OTT	1st Lt	CO 2/757 GR	IPW, 24 Aug
OTTO	Colonel	CO 63 GAF Trg Regt	IPW, 24 Aug
OTTOGRAFEN v.	Major	CO 901 AA Bn	IPW, 25 Aug
PAEHLKE	2nd Lt	in Pz Sig Bn 89	Doc, 27 Aug
PACK, Dr.	2nd Lt	Med Offr, 110 PGR	IPW, 31 Aug
PATZELT	1st Lt	CO 6/481 Mixed AA Bn	IPW, 24 Aug
PAULSON	2nd Lt.	CO 2/689 Eng Bn	IPW, 30 Aug
PAUSCH	1st Lt	CO 8/194 Sich Regt	IPW, 22 Aug
PEGLOW	2nd Lt	in 14/917 GR	IPW, 26 Aug
PELTZER	2nd Lt	CO 14/326 GR	IPW, 30 Aug
PENNIGER	SS Hpt. Stu. Fhrer	in 2 Regt 30 Waffen SS Gren Div	IPW, 7 Sept
PETERSEN	Colonel	CO 757 GR	IPW, 28 Aug
PETERSHAGEN	1st Lt	in III/119 AR	Doc, 27 Aug
PEYERHUBER	2nd Lt	in 7/934 GR	IPW, 21 Aug

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Name	Rank	Unit	Source
PFLUG v.	2nd Lt	in 11 Pz Div	Doc, 26 Aug
PFRANG	2nd Lt	in 1/7 Res AR	IPW, 29 Aug
PHILIP	2nd Lt	in II/757 GR	IPW, 1 Sept
PICHLER	Captain	in 933 GR	IPW, 9 Sept
PICCO	2nd Lt	G-2, 8 Res Regt	IPW, 3 Sept
PICHOTKA	2nd Lt	Construction Offr. 932 GR	IPW, 27 Aug
PITSCH	Captain	CO II/239 Res Regt	IPW, Sept
PILGER	Captain	in 10/1291 CA Regt	IPW, 1 Sept
PILTZ	Captain	CO 2/1196 Army Bn	IPW, 7 Sept
PINTER	2nd Lt	in 757 GR	IPW, 2 Sept
PIOCH	2nd Lt	Div Staff 148 Res Div	Doc, 26 Aug
PIRKER	Colonel	CO 338 AR	IPW, 29 Aug
PISS	1st Lt	CO 1/7 Res Eng Bn	IPW, 30 Aug
PLATEAU	Captain	CO 5/642 Ost Bn	IPW, 1 Sept
PLESSING v.	1st Lt.	fmly liais. Staff, Grenoble	IPW, 7 Sept
PLAUDL	1st Lt	6/111 PGR	IPW, 10 Sept
PORTER (PW)	2nd Lt	CO 5/114 Flak Regt	IPW, 21 Aug
POSCHEL	1st Lt	in 4/461 Res Bn	IPW, 23 Aug
PRAETORIUS	Major	CO Kreiskommdtr 554, Belfort	IPW, 28 Aug
PRANG	2nd Lt	in 10/110 PGR	IPW, 7 Sept
PRENZLOW	2nd Lt	in I/119 AR	Doc, 27 Aug
PREUSCHL v.	Sdf	fmly Liais Staff, Grenoble	IPW, 7 Sept
PRINTZ	2nd Lt	fmly in 198 I.D.	Doc, 3 Sept
PROPP	2nd Lt	in 1/669 Eng Bn	IPW, 30 Aug
PROYSAR	2nd Lt	in 1/8 Res Eng Bn	IPW, 31 Aug
PRYCZIBILSKY	1st Lt	Div Ordn, 148 Res Div	IPW, 29 Aug
PRUEFER	Captain	in Hq Btry/AR 235	Doc, 8 Sept
PRZYBOROWSKI	2nd Lt	277 AA Bn	Doc, 27 Aug
QUASS	Captain	CO of CT Quass, Co 11/71 Flieger Regt	IPW, 2 Sept
RABE	Captain	in 3/326 GR	IPW, 15 Aug
RACH	1st Lt	in III/1291 CA Regt	IPW, 1 Sept
RAFFEL	?	Liais. Staff Grenoble	IPW, 7 Sept
RAHM	Captain	in 11 Pz Div	Doc, 27 Aug
RAMELOW	1st Lt	CO II/1291 CA Regt	DCC, 6 Sept
RANKE	1st Lt	CO Harbor Cmd unit in Toulon	IPW, 3 Sept
RATSKE	Captain	CO 181 Res Bn	IPW, 8 Sept
RAUSCH	Captain	CO I/932 GR	IPW, 27 Aug
RAMDER	Sturmbann Fhrer	CO Bn/Fronthilfed. Reichspost	Doc, Aug
REICH	2nd Lt	in 9/1291 CA Regt	Doc, 7 Sept
REICHELT	2nd Lt	Adj. I/932 GR	IPW, 27 Aug
REIGER	1st Lt	in 7 Res Arty Bn	IPW, 29 Aug
REINARTZT	Surgeon	in 11 Pz Div	Doc, 27 Aug
REINEK	1st Lt	CO 13/933 GR	IPW, 1 Sept
REINERT	1st Lt	CO 13/Sich Regt 200	IPW, 8 Sept
REINHARDT	2nd Lt	CO 10/200 Sich Regt	IPW, 9 Sept
REISEGUIE Ride	Captain	in II/98 Res Mtn Bn	Doc, 29 Aug
REITMEYER	1st Lt	in 5/200 Sich Regt	IPW, 9 Sept
RESIGE	Captain	CO 98 Res Arty Bn	IPW, 30 Aug
RETTL	Major	CO III/71 Flieger Regt	IPW, 2 Sept
REUSCH	2nd Lt	Adj. II/338 AR	IPW, 29 Aug
REUTER	Captain	in II/110 PGR	IPW, 22 Aug
REUTZ	Captain	CO 217 Res Bn (157 Res Regt)	Doc, 23 Aug
RICHTER	Captain	CO 10/71 Flieger Regt	IPW, 2 Sept
RIDDLR	1st Lt	in II/111 PGR	Doc, 27 Aug
RIEGER	1st Lt	in Res GR 239	Doc, 23 Aug
RIESER	1st Lt	CO 2/520 Ren Bn	IPW, 23 Aug
RIESSECKE	Captain	in 1st Res Mtn AT Co	IPW, 29 Aug
RING	SS Hpt. St. Bannfhrer	in 2 Regt 30 Waffen SS Gren Div	IPW, 7 Sept
RITTER	1st Lt	in 8/Res Mtn Regt	Doc, 9 Sept
RODE	2nd Lt	in 1038 Arty AT Bn	IPW, 1 Sept
RODBLOW	Major	in 7 Res Engr Bn	IPW, 29 Aug
ROE	1st Lt	in 3/758 GR	IPW, 24 Aug
ROER	Major	G-2, 82nd Corps	IPW, 5 Sept
ROESSLER	Captain	CO 642 Ost Bn	IPW, 1 Sept
ROHR	1st Lt	in 716 AT Co	Doc, 6 Sept

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Name	Rank	Unit	Source
ROHGE	1st Lt	in 7/110 PGR	IPW, 30 Aug
ROLAND	Hpt. Sturmbannfhrer	Fronthilfe d. Reichspost	IPW, 24 Aug
ROSCHAU	2nd Lt	in 11 Pz Div	Doc, 27 Aug
ROSENSTEIN	2nd Lt	in 3/669 Eng Bn	IPW, 30 Aug
ROSSBERGER	1st Lt	CO 17/765 GR	IPW, 20 Aug
ROSSTAUSCHER, Dr.	1st Lt	1057 Med Co (Mtz)	IPW, 29 Aug
ROTHE	Judge Advocate	in 11 Pz Div	Doc, 27 Aug
RUCH	2nd Lt	CO 3/757 GR	IPW, 30 Aug
RUCKER v.	Captain	in 3/1291 CA Regt	IPW, 23 Aug
RUCKER	1st Lt	in 5/AR 235	Doc, 6 Sept
RUDELOFF (PW)	Major	CO 7 Res Eng Bn (leader of CT Rudeloff)	IPW, 30 Aug
RUEHLING	Captain (Naval)	on Staff of Adm Ruhfus	IPW, 29 Aug
RUEPF	2nd Lt	in 4/1291 CA Regt	Doc, 6 Sept
RUNGE	1st Lt	CO 7/110 PGR	IPW, 28 Aug
RUSKE	Captain	CO 242 Fd Repl Bn	IPW, 1 Sept
RUTEL	Captain	CO 1/235 AT Bn	IPW, 2 Sept
RUTSCHMANN	Major	G-4, 338 I.D.	IPW, 28 Aug
SAALFELD	Major	CO I/AR 244	IPW, 20 Aug
SABISCH	Captain	CO III/239 GR	IPW, 29 Aug
SACHER	2nd Lt	CO 5/11 Pz Rcn Bn	IPW, 1 Sept
SACHS	Gen	CO 64 Res Corps Bordeaux	IPW, 5 Sept
SACHSEN	Major	CO II/338 AR	IPW, 29 Aug
SAMSON	Captain	CO II/326 GR	IPW, 29 Aug
SAUDER	2nd Lt	in 14/305 GR	IPW, 28 Aug
SAURSE	1st Lt	in I/917 GR	IPW, 21 Aug
SATZINGER	CAPTAIN	CO II/110 PGR	IPW, 7 Sept
SCHAAB	Captain	CO 205 Res Bn	IPW, 9 Sept
SAURSE	1st Lt	CO 3/917 GR	IPW, 1 Sept
SCHAESBERG, Graf v.	2nd Lt	in 11 Pz Div	Doc, 27 Aug
SCHAETTER	Captain	in 346 AA Bn	IPW, 29 Aug
SCHAF	1st Lt	CO 13/932 GR	IPW, 21 Aug
SCHAFER	?	in 3/217 Res Gren Bn	IPW, 29 Aug
SCHAJA	1st Lt	CO 4/326 GR	IPW, 30 Aug
SCHALLER (PW)	2nd Lt	Staff 669 Eng Bn	IPW, 30 Aug
SCHAPHAUS	1st Lt	CO 5/200 Sich Regt	IPW, 7 Sept
SCHARFF	1st Lt	in 11 Pz Div	Doc, 27 Aug
SCHARNAGEL	Colonel	CO 765 GR	IPW, 19 Aug
SCHAETTER	Captain	CO 346 AA Bn	IPW, 1 Sept
SCHAUM (PW)	2nd Lt	in Hq 11 Pz Div	IPW, 23 Aug
SCHARF	1st Lt	in 1/716 Sig Bn	IPW, 1 Sept
SCHECKERMANN	2nd Lt	in 5/481 Mixed AA Bn	IPW, 24 Aug
SCHEEL	Major	in Fortress Eng Staff 14	Doc, 25 Aug
SCHELTER	Captain	CO 346 Hvy AA Bn	IPW, 30 Aug
SCHERNIG	1st Lt	CO 6/933 GR	IPW, 30 Aug
SCHERRY	1st Lt	12/Sich Regt 200	IPW, 8 Sept
SCHIELE	Major	in II/305 GR	IPW, 26 Aug
SCHIENER	2nd Lt	in 8/98 Res Mtn Bn	IPW, 29 Aug
SCHILE	Major	CO 326 GR (fmly II/305)	IPW, 27 Aug
SCHIKEDAN	1st Lt	CO 11/933 GR	IPW, 1 Sept
SCHILLER	Captain	CO 5/194 Sich Regt	IPW, 1 Sept
SCHILLER (PW)	2nd Lt	in 932 GR	IPW, 1 Sept
SCHIPPERT	1st Lt	in Liais Staff 590 Lyon	IPW, 7 Sept
SCHLADITZ	Captain	CO IV/AR 235	Doc, 1 Sept
SCHLANZ	Major	in 11 Pz Div	Doc, 27 Aug
SCHLEIERMACHER	Major	CO 235 Fd Repl Bn	IPW, 9 Sept
SCHLENNER	2nd Lt	in II/Res Bn 98	Doc, 26 Aug
SCHLENK	1st Lt	in IV/235 AR	Doc, 6 Sept
SCHLENKER	2nd Lt	in 716 I.D.	Doc, 6 Sept
SCHLICK	1st Lt	CO 2/AT Bn 235	IPW, 29 Aug
SCHLIEFKE	Captain	CO 9/765 GR	IPW, 26 Aug
SCHLUETER	1st Lt	Co 3/110 PGR	IPW, 23 Aug
SCHMALZBAUER	1st Lt	CO 2/7 Res Eng Bn	IPW, 30 Aug
SCHMIDT	Major	CO III/Flieger Regt 32	Doc, 13 June
SCHMIDT	Major	in 11 Pz Div	Doc, 27 Aug
SCHMIDT (? ?)	Major	in 609 Supply Bn	IPW, 27 Aug

T H I S P A G E I S U N C L A S S I F I E D

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Name	Rank	Unit	Source
SCHMIDT	1st Lt	in Res Gren Bn 239	Doc, 23 Aug
SCHMIDT	2nd Lt	in II/111 PGR	Doc, 27 Aug
SCHMIDT v.	2nd Lt	in II/757 GR	IPW, 27 Aug
SCHMIDT	2nd Lt	in 2/244 AR	IPW, 24 Aug
SCHNIEGE	2nd Lt	CO 2/305 GR	IPW, 25 Aug
SCHNITTHAEUSER	1st Lt	CO 2/338 AR	IPW, 29 Aug
SCHNEIDER	Captain	in I/1716 AR	IPW, 27 Aug
SCHNEIDER	Captain	in 9/235 AR	Doc, 6 Sept
SCHNEIDER	Div Bandleader	in 11 Pz Div	Doc, 27 Aug
SCHNEIDER	1st Lt	Supply Offr. II/111 PGR	IPW, 4 Sept
SCHOEN	Major	CO III/90 GAF	IPW, Aug
SCHOENE, Dr.	Captain	Vet Offr. 932 GR	IPW, 27 Aug
SCHOENEMAYER	2nd Lt	Sig Offr. 736 GR	IPW, 1 Sept
SCHOENFELD	1st Lt	Sig Offr. 24 Arty Trg Bn	IPW, 1 Sept
SCHOLLE	Captain	in III/917 GR	IPW, 21 Aug
SCHOMACHER	2nd Lt	CO Hq II/338 AR	IPW, 29 Aug
SCHOTT	2nd Lt	CO 2/Auffangs Bn in 11 Pz Div	IPW, 4 Sept
SCHOTT	Captain	CO 7/200 Sich Regt	IPW, 9 Sept
SCHRADER	2nd Lt	in 3/Gren Res Bn 181	IPW, 8 Sept
SCHRAMM	2nd Lt	in Res Gren Bn 184	Doc, 26 Aug
SCHREINER	Captain	CO 235 Res Bn	IPW, 9 Sept
SCHROEDER	Captain	CO I/28/189 I.D.	IPW, 28 Aug
SCHROEDER	Captain	in I/244 AR	IPW, 25 Aug
SCHROT	Captain	in 9/119 Repl Bn	IPW, 30 Aug
SCHUETTLER	2nd Lt	in 3/110 PGR	IPW, 1 Sept
SCHUETTE	2nd Lt	Adj. Regt Kessler	IPW, 3 Sept
SCHUETZ	1st Lt	in Res AR 7	Doc, 26 Aug
SCHULER	1st Lt	in 2/308 GR	IPW, 24 Aug
SCHULER	1st Lt	CO 8/200 Sich Regt	IPW, 9 Sept
SCHULTE	1st Lt	Supply Offr. I/110 PGR	IPW, 31 Aug
SCHULTE-MOENTIG	Admiral	CO Naval Units S. France	Doc, 9 Sept
SCHULTZ	Major	CO 520 Arm'd Rcn Bn	IPW, 28 Aug
SCHULTZE	Captain	CO 57/159 Res Div	IPW, 8 Sept
SCHULZ	Major	G-3 8 Res GR	IPW, 3 Sept
SCHULTS	1st Lt	in 14/758 GR	IPW, 28 Aug
SCHULZE (PW)	Captain	CO 57 Bn/251 Res Regt	IPW, 9 Sept
SCHUMACHER, Dr.	Surgeon	Med Offr. 765 GR	IPW, 25 Aug
SCHUMANN	2nd Lt	Sig Offr. 110 PGR	IPW, 31 Aug
SCHUNSKI	2nd Lt	in 2/642 Ost Bn	IPW, 1 Sept
SCHUSS (PW)	1st Lt	CO 4/57 Bn/251 Res Regt	IPW, 9 Sept
SCHUSTER	1st Lt	in 2/669 Engr Bn	IPW, 29 Aug
SCHUTT	Captain	CO 1/116 Res Bn	IPW, 3 Sept
SCHUTZ	1st Lt	in 7 Res Arty Regt	IPW, 29 Aug
SCHWARTZ	Surgeon	Staff 7 Res Arty Regt	IPW, 29 Aug
SCHWARTZ	2nd Lt	CO 5/111 PGR	IPW, 4 Sept
SCHWARZ	Captain	Staff III/1291 CA Regt	DOC, 7 Sept
SCHWARZE	Major	CO 625 Landesschuzen Bn	IPW, 28 Aug
SCHWARZBL	Captain	CO I/726 GR	IPW, 9 Sept
SCHWEHR	Lt. Col.	CO Res Mtn Regt 1	Doc, 8 Sept
SCHWENKE	2nd Lt	Asst Adj. 338 AR	IPW, 29 Aug
SCHWEPPE	2nd Lt	in 726 GR	IPW, 1 Sept
SCHWERIN	2nd Lt	Adj. 11 Rcn Bn	Doc, 27 Aug
SCHWICKE	1st Lt	CO 13/933 GR	IPW, 28 Aug
SCHWING R	1st Lt	Staff 11 Pz Div	Doc, 27 Aug
SEEGAR	Colonel	CO 7 Res Arty Regt	IPW, 26 Aug
SEEHORS	Surgeon	Med Offr. 116 Res Bn	IPW, 3 Sept
SEELING	Firgeits Fuehrer	in Reichsarbeitsdienst AA Bn (3?) 356	IPW, 6 Sept
SEIFKIN	2nd Lt	in 11/726 GR	IPW, 1 Sept
SEIFERT	2nd Lt	CO 8/111 PGR	IPW, 9 Sept
SEILER	2nd Lt	CO 338 MP Detachment	IPW, 28 Aug
SEITZ	Captain	CO 338 Engr Bn	IPW, 5 Sept
SELISCH	Captain	CO III/239 Res GR	IPW, 3 Sept
SELZER	2nd Lt	in II/15 Pz Regt	Doc, 27 Aug
SEUS	Captain	CO Hq/1196 CA Bn	IPW, 7 Sept
SIEBERT	Captain	in 11 Pz Div	Doc, 26 Aug

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Name	Rank	Unit	Source
SIEFERT	Lt (Naval)	Adj. Adm of Ruhfus Staff	IPW, 29 Aug
SING	Fieldpost Inspector	in Field Post Office 11 PZ Div	Doc, 27 Aug
SIEGELMUND	2nd Lt	in AT Bn 61	Doc, 27 Aug
SIEGERT	Captain	CO 1/111 PGR	Doc, 27 Aug
SIEPMANN	1st Lt	CO 4/707 GR	IPW, 24 Aug
SIKORSKI	2nd Lt	in 3/642 Ost Bn	IPW, 1 Sept
SIMON	1st Lt	CO 7/933 GR	IPW, 29 Aug
SIMON	Lt. Col.	CO I/71 Flieger Regt	IPW, 2 Sept
SIMON	2nd Lt	in 14/934 GR	IPW, 21 Aug
SIMON	Paymaster	in 11 Pz Div	Doc, 27 Aug
SHOCK	1st Lt	CO 3/209 Pz Eng Bn	IPW, 24 Aug
SOMMERFELD	2nd Lt	in 2/726 GR	IPW, 1 Sept
SOMMERAUM	2nd Lt	in 11/726 GR	IPW, 1 Sept
SPRENGER	Paymaster	in 11 Pz Div	Doc, 27 Aug
STABINO	Lt. Col.	CO 5 Cossak Regt	IPW, 7 Sept
STAHN	2nd Lt	in 1/110 PGR	Doc, 27 Aug
STAIB	1st Lt	in 7/98 ResMtn Bn	IPW, 29 Aug
STAHL	1st Lt	in 11 Pz Div	Doc, 27 Aug
STEFAN	2nd Lt	CO 8/110 PGR	IPW, 28 Aug
STEINERT	Captain	CO 5/71 Flieger Regt	IPW, 2 Sept
STEINMETZ	Captain	in 562 Adm Office	IPW, 27 Aug
STENKHOFF	Lt. Col.,	CO in 15 Pz Regt	Doc, 27 Aug
STEPHAN	2nd Lt	in 8/110 PGR	IPW, 1 Sept
STEPPUHN	1st Lt	in 12/129l CA Regt	IPW, 1 Sept
STRUCK	1st Lt	fmly CO IV/934 GR	Doc, 6 Sept
STEUER	Major	in 11 Pz Div	Doc, 27 Aug
STICHLER	1st Lt	CO 2/15 Pz Regt	IPW, 5 Sept
STIEBLER	Captain	in 4/163 Res Bn	IPW, 7 Sept
STOER	Major	Staff Sig Maint Bn 16 GAF	Doc, 6 Sept
STOETZER	2nd Lt	in II/15 Pz Regt	Doc, 27 Aug
STOFF	2nd Lt	in 10/3ich Regt 200	IPW, 8 Sept
STOLZ	2nd Lt	Tng Offr. 481 Mixed AA Bn	IPW, 24 Aug
STREHLE (✓)	2nd Lt	CO 3/308 GR	IPW, 29 Aug
STRIEZEL	2nd Lt	CO 2/11 Pz Recn Bn	IPW, 29 Aug
STROKER	1st Lt	CO 4/Ost Bn 406	IPW, 9 Sept
STRUBELT	Captain	in 716 I.D.	Doc, 6 Aug
STUPKA	2nd Lt	in 2/198 Fus Bn	IPW, 29 Aug
STURMER	Major	CO 36 Res Bn	IPW, 9 Sept
SUBJANEK	1st Lt	CO 2/119 Pz Arty Regt	IPW, 1 Sept
SUCH	2nd Lt	Adj. III/952 GR	IPW, 27 Aug
SUHR	2nd Lt	CO 1/1022 Sich Bn	IPW, 9 Sept
SWADE ✓	2nd Lt	CO 5/11Pz Recn Bn	IPW, 26 Aug
TAFEL	1st Lt	in PZ Div 11	Doc, 27 Aug
TANSCHINA	1st Lt	Trg Offr. 2/119 Arm'd Arty Regt	IPW, 1 Sept
TAUSCH	2nd Lt	in Pz Regt 15	Doc, 27 Aug
TERNIEDEN	Major	in I/726 GR	IPW, 1 Sept
TERLUISEN	2nd Lt	in Res AR 8	Doc, 26 Aug
TEUFEL	SdfZ	in 11 Pz Div	Doc, 27 Aug
THEINER	1st Lt	in 5/1716 AR	IPW, 1 Sept
THELEN	1st Lt	in 11 Pz Div	Doc, 27 Aug
THIELE	1st Lt	Adj. 642 Ost Bn	IPW, 1 Sept
THIEME	Major	CO 119 Repl Bn (CO Regt Thieme)	Doc, 27 Aug
THIEL	2nd Lt	Adj. 372 Res Gren Bn	IPW, 9 Sept
THIEM (FU)	1st Lt	CO Hq/251 Res Regt	IPW, 9 Sept
THIESEKORN	Captain	in 1/726 GR	IPW, 1 Sept
THIESSER	2nd Lt	2/111 PGR	IPW, 4 Sept
THIME	1st Lt	CO 2/244 AR	IPW, 8 Sept
TOLLSCHEIN	Lt. Col.,	Co II/71 Flieger Regt	IPW, 3 Sept
THOMANN	1st Lt	in 3/326 GR	IPW, 9 Sept
THURMANN	1st Lt	fmaly Btry Offr. 1/235 AR	Doc, 6 Sept
TORNOV	Major	CO 327 Res Gren Bn	IPW, 4 Sept
TIDDEN	2nd Lt	in I/119 Pz AR	Doc, 27 Aug
TILGER	1st Lt	in 2/AT Co 61	IPW, 10 Sept
TINNER	2nd Lt	in 1/196 Fus Bn	IPW, 28 Aug
TORNEMANN	2nd Lt	in 7/305 GR	IPW, 24 Aug

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Name	Rank	Unit	Source
TOSSTORF	1st Lt	in 7/736 GR	IPW, 1 Sept
TRENDE	2nd Lt	Signal Offr. 932 GR	IPW, 27 Aug
TUFINSKI	Captain	CO 2/338 AR	IPW, 5 Sept
UFER	Lt. Col.	CO 200 Sich Regt	IPW, 29 Aug
ULBRICH	Major	CO I/Flieger Regt 32	Doc, 6 Sept
ULJANOV	2nd Lt	CO 4/661 Ost Bn	IPW, 4 Sept
VAHL	Major	CO I/71 Flieger Regt	IPW, 3 Sept
VEICHT	Captain	in 3/609 Supply Bn	IPW, 27 Aug
VEZINEV(?)	Captain	Staff 62 Corps	IPW, 5 Sept
VIKTOR	1st Lt	in 11 Pz Div	Doc, 27 Aug
VOGELMANN (PW)	1st Lt	in 7/326 GR	IPW, 29 Aug
VOGELSANG	1st Lt	in 5/319 Arty Regt	IPW, 5 Sept
VOGET	2nd Lt	Constr. Offr. Hq 765 GR	IPW, 22 Aug
VOGT	Captain	CO I/239 Res Regt	IPW, 3 Sept
VOGT (Same!)	Captain	CO 148 Fus Bn	IPW, 16 Aug
VOIGT	2nd Lt	in 8/634 GR	IPW, 21 Aug
VOIGT, Dr.	?	in 244 Div	IPW, 1 Sept
VOIGT (PW)	Major	in 669 Engr Bn	IPW, 29 Aug
WAGNER	Captain	CO Repl Bn 102	IPW, 8 Sept
WAGNER	Captain	CO 669 Engr Bn	IPW, 6 Sept
WAGNER	Captain	CO 242 Div Supply Chnn.	IPW, 8 Sept
WAGNER	Major	in II/933 GR	IPW, 24 Aug
WAHL	Major	CO I/Flieger Regt 71	Doc, 6 Sept
WAGNER	1st Lt	CO 2/7 Res Arty Bn	IPW, 29 Aug
WALTER	2nd Lt	CO I/15 MK Regt	IPW, 4 Sept
WALCZOK	Captain	CO III/338 AR	IPW, 29 Aug
WALDEN	Captain	Staff 8 Res Regt	Doc, 26 Aug
WALDRABE	Major	in I/736 GR	IPW, 1 Sept
WALTER	2nd Lt	in 100 Res Mtn Bn	Doc, 26 Aug
WALTER	Major	CO 85 Mtn Regt	IPW, 9 Sept
WANDHUFF	1st Lt	in 11 Pz Div	Doc, 27 Aug
WARTENSLEBEN v.	Captain	in 11 Pz Div	Doc, 27 Aug
WASSERMEIER	2nd Lt	in 11 Pz Div	Doc, 27 Aug
WEBER	2nd Lt	CO 10/765 GR	IPW, 24 Aug
WEGGERT	1st Lt	CO 3/217 Res Bn	IPW, 27 Aug
WEGNER	2nd Lt	Staff 62nd Corps	IPW, 5 Sept
WEHNER	2nd Lt	CO 17/63 GAF Trg Regt	IPW, 24 Aug
WEHRSTEDT	Captain	CO 2/61 AT Bn	Doc, 27 Aug
WEICKE	Major	in 11 Pz Div	Doc, 27 Aug
WEIGER	Major	CO I/15 Pz Regt	IPW, 5 Sept
WEINELT	2nd Lt	in 11 Pz Div	Doc, 26 Aug
WEISBRICH	Major	CO 372 Res Bn	IPW, 4 Sept
WEISSBERG (PW)	2nd Lt	CO 4/327 Res Bn	IPW, 4 Sept
WENDT	2nd Lt	CO 1/765 GR	IPW, 26 Aug
WENNIG	2nd Lt	CO 1/11 Arm'd Rcn Bn	IPW, 2 Sept
WENZ	Major	in 556 AA Bn	IPW, 24 Aug
WERNER	Major	CO 406 Ost Bn	IPW, 9 Sept
WERNER	2nd Lt	in II/110 PGR	Doc, 27 Aug
WERSTETT v.	Captain	CO I/111 PGR	IPW, 4 Sept
WETZSTEIN	1st Lt	in 11 Pz Div	Doc, 27 Aug
WIDELL	1st Lt	Armory Offr. 481 Mixed AA Mobile Bn	IPW, 24 Aug
WIDMEIER	1st Lt	in 6/326 GR	IPW, 29 Aug
WIELANDT	Offr. Cand.	in 7/1291 CA Regt	Doc, 7 Sept
WIENER	2nd Lt	in 2/520 Rcn Bn	IPW, 28 Aug
WIENER	2nd Lt	in I/1291 CA Regt	Doc, 6 Sept
WIESENER	1st Lt	CO 9/119 Field Repl Bn	IPW, 5 Sept
WIESER	Captain	in 179 Res Bn	Doc, 26 Aug
WINTERSHEIM	Maj. Gen.	CG 11 Pz Div	IPW, 25 Aug
WILDE	Lt. Col.	CO 111 Pz Gren Regt	IPW, 23 Aug
WINKELMEIER	Captain	Adj. in 62 Corps	IPW, 5 Sept
WILKOFF	1st Lt	Sig & Construction Offr. 481 Mixed AA Bn	IPW, 24 Aug
WINTER	1st Lt	in 100 Res Mtn Bn	Doc, 26 Aug
WINTERSCHEID	2nd Lt	in 716 I.D.	Doc, 6 Sept
WIRRY	Lt. Col.	CO 14 Fortress Eng Staff	IPW, 8 Sept
WITTMEIER	1st Lt	CO 6/326 GR	IPW, 9 Sept
WOEHL (PW)	1st Lt	in 3/63 Flieger Regt	IPW, 30 Aug.

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Name	Rank	Unit	Source
TOSSTORF	1st Lt	in 7/736 GR	IPW, 1 Sept
TRENNE	2nd Lt	Signal Offr. 932 GR	IPW, 27 Aug
TUMINSKI	Captain	CO 2/338 AR	IPW, 5 Sept
UFER	Lt. Col.	CO 200 Sich Regt	IPW, 29 Aug
ULBRICH	Major	CO I/Flieger Regt 32	Doc, 6 Sept
ULJANOV	2nd Lt	CO 4/661 Ost Bn	IPW, 4 Sept
VAHL	Major	CO I/71 Flieger Regt	IPW, 3 Sept
VEICHT	Captain	in 3/609 Supply Bn	IPW, 27 Aug
VEZINEV(?)	Captain	Staff 62 Corps	IPW, 5 Sept
VIKTOR	1st Lt	in 11 Pz Div	Doc, 27 Aug
VOGELMANN (PW)	1st Lt	in 7/326 GR	IPW, 29 Aug
VOGELSANG	1st Lt	in 5/319 Arty Regt	IPW, 5 Sept
VOGET	2nd Lt	Constr. Offr. Hq 765 GR	IPW, 22 Aug
VOGT	Captain	CO I/239 Res Regt	IPW, 3 Sept
VOGT (Same!)	Captain	CO 148 Fus Bn	IPW, 16 Aug
VOIGT	2nd Lt	in 8/934 GR	IPW, 21 Aug
VOIGT, Dr.	?	in 244 Div	IPW, 1 Sept
VOIGT (PW)	Major	in 669 Engr Bn	IPW, 29 Aug
WAGNER	Captain	CO Repl Bn 102	IPW, 8 Sept
WAGNER	Captain	CO 669 Engr Bn	IPW, 6 Sept
WAGNER	Captain	CO 242 Div Supply Chnn.	IPW, 8 Sept
WAGNER	Major	in II/933 GR	IPW, 24 Aug
WAHL	Major	CO I/Flieger Regt 71	Doc, 6 Sept
WAGNER	1st Lt	CO 2/7 Res Arty Bn	IPW, 29 Aug
WALTER	2nd Lt	CO I/15 TK Regt	IPW, 4 Sept
WALOZCK	Captain	CO III/338 AR	IPW, 29 Aug
WALDEN	Captain	Staff 8 Res Regt	Doc, 26 Aug
WALDRABE	Major	in I/736 GR	IPW, 1 Sept
WALTER	2nd Lt	in 100 Res Mtn Bn	Doc, 26 Aug
WALTER	Major	CO 85 Mtn Regt	IPW, 9 Sept
WANDHUFF	1st Lt	in 11 Pz Div	Doc, 27 Aug
WARTENSLEBEN v.	Captain	in 11 Pz Div	Doc, 27 Aug
WASSERMEIER	2nd Lt	in 11 Pz Div	Doc, 27 Aug
WEBER	2nd Lt	CO 10/765 GR	IPW, 24 Aug
WEGGERT	1st Lt	CO 3/217 Res Bn	IPW, 27 Aug
WEGNER	2nd Lt	Staff 62nd Corps	IPW, 5 Sept
WEHNER	2nd Lt	CO 17/63 GAP Trg Regt	IPW, 24 Aug
WEHRSTEDT	Captain	CO 2/61 AT Bn	Doc, 27 Aug
WEICKE	Major	in 11 Pz Div	Doc, 27 Aug
WEIGER	Major	CO I/15 Pz Regt	IPW, 5 Sept
WEINELT	2nd Lt	in 11 Pz Div	Doc, 26 Aug
WEISBRICH	Major	CO 372 Res Bn	IPW, 4 Sept
WEISSBERG (PW)	2nd Lt	CO 4/327 Res Bn	IPW, 4 Sept
WENDT	2nd Lt	CO 1/765 GR	IPW, 26 Aug
WENNIG	2nd Lt	CO 1/11 Armd Rcn Bn	IPW, 2 Sept
WENZ	Major	in 556 AA Bn	IPW, 24 Aug
WERNER	Major	CO 406 Ost Bn	IPW, 9 Sept
WERNER	2nd Lt	in II/110 PGR	Doc, 27 Aug
WERTSTEFT v.	Captain	CO I/111 PGR	IPW, 4 Sept
WETZSTEIN	1st Lt	in 11 Pz Div	Doc, 27 Aug
WIDELL	1st Lt	Armory Offr. 481 Mixed AA Mobile Bn	IPW, 24 Aug
WIDEMER	1st Lt	in 6/326 GR	IPW, 29 Aug
WIDLANDT	Offr. Cand.	in 7/1291 CA Regt	Doc, 7 Sept
WIEMER	2nd Lt	in 2/520 Rcn Bn	IPW, 28 Aug
WIEMER	2nd Lt	in I/1291 CA Regt	Doc, 6 Sept
WIESEMER	1st Lt	CO 9/119 Field Repl Bn	IPW, 5 Sept
WIESER	Captain	in 179 Res Bn	Doc, 26 Aug
WIETERSHEIM	Maj. Gen.	CG 11 Pz Div	IPW, 25 Aug
WILDE	Lt. Col.	CO 111 Pz Gren Regt	IPW, 23 Aug
WILKELMEIER	Captain	Adj. in 62 Corps	IPW, 5 Sept
WILKOPF	1st Lt	Sig & Construction Offr. 481 Mixed AA Bn	IPW, 24 Aug
WINTER	1st Lt	in 100 Res Mtn Bn	Doc, 26 Aug
WINTERSCHEID	2nd Lt	in 716 I.D.	Doc, 6 Sept
WIRRY	Lt. Col.	CO 14 Fortress Eng Staff	IPW, 8 Sept
WITTMEIER	1st Lt	CO 6/326 GR	IPW, 9 Sept
WOHL (PW)	1st Lt	in 3/63 Flieger Regt	IPW, 30 Aug.

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Name	Rank	Unit	Source
WOEHR	Captain	in 7 Res Engr Bn	IPW, 30 Aug
WOELFL	Captain	in 6/235 AR	Doc, 6 Sept
WOELKE, Dr.	Med Offr.	in III/1291 CA Regt	IPW, 3 Sept
WOLF	Captain	CO I/110 PGR	IPW, 23 Aug
WOLFF	Lt. Col.	in 741 AA Bn	IPW, 22 Aug
WURZER (/)	Lt. Col.	CO 9 Res Regt	IPW, 9 Sept
ZACH	2nd Lt	in I/111 PGR	Doc, 27 Aug
ZAMORY v.	Major	in 11 Pz Div	Doc, 27 Aug
ZEISER	2nd Lt	in II/98 Mtn Bn	Doc, 26 Aug
ZICE	2nd Lt	Adj. 441 Ost Bn	IPW, 1 Sept
ZEUNER	Captain	in 716 Inf Div	Doc, 6 Sept
ZIMMERMANN	2nd Lt	in 716 Inf Div	Doc, 6 Sept
ZIMMERMANN	1st Lt	in 5/9 Res Regt	IPW, 8 Sept
ZUTZ	Paymaster	in 11 Pz Div	Doc, 27 Aug
ZWIRNER	Major	CO III/8 Res Regt now 8 Res Regt	IPW, 29 Aug

III COUNTER-INTELLIGENCE

Interrogation General Richter

Generalmajor Otto RICHTER of the 198 Inf Div stated in his interrogation that on the whole, American PW are very security minded, but are very careless about documents. About 25 Aug 44 an American captain was taken prisoner. On his person he had complete plans of 7th Army operations and also complete identifications of units in 7th Army down to Regts, which the General was able to quote from memory. These documents were rushed back to higher Hq. The General added that because of this tendency, the Germans now emphasize intelligence obtained from documents, rather than from interrogation.

William W. Quinn

WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2.

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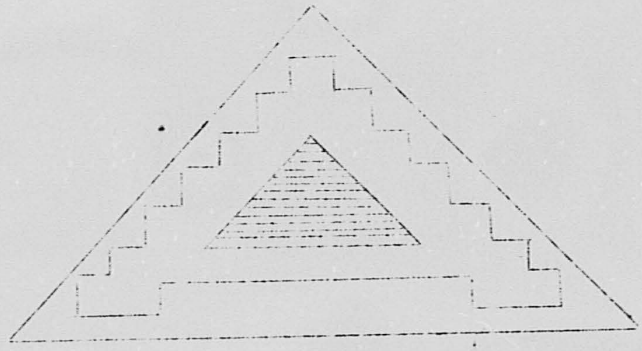
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12 September 1944

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TABLE OF CONTENTS

I Communications

Road and Rail Bridges

II Battle Order

History and Organization of the 159th Reserve Division.
History and Organization of the 30th SS Infantry Division.
Panzer Brigades

III Miscellaneous

Captured Documents.

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I COMMUNICATIONS.

Road and Rail Bridges

The following additions to the Road and Rail Bridge report listed in Section II, "Communications", G-2 Information Bulletin No. 9, dated 27 August 1944 have been noted:

NUMBER	LOCATION	COORDINATE	OBSTACLE	STATUS	DATE	SOURCE
170	Norvillars	WA-404844	?	Out	9	Photo
171	Voux Charmont	WA-329806	Canal	Out	9	Photo
172	Jallerange	WO-547574	Ognon	Out	10	Photo
173	Marnay	WO-601602 (3 Brs.)	Ognon	1 Out, 2 In	10	Photo
174	Emagny	WO-666635	Ognon	Out	10	Photo

Status of Rhine River Bridges, 4 September 1944.

	Neuenburg	WV-8713	Steel RR Br., R.C. Piers, being used as Road Bridge.			1100 ft long.
	Neuenburg	WV-8713	Floating Br. 800 yds. downstream. (N) from RR Bridge.			570 ft long.
175	Neuenburg	WV-8713	No Bridge at main Rd bridge site.			
	Schonau	WV-9457	Masonry Bridge over branch of River.			300 ft long.
176	Schonau	WV-939571	Main Bridge does not exist.			
	Rheinau	WV-9868	Floating Bridge.			700ft. long.
	Rheinau	WV-980682	2-4 ponton ferries 200 yds down stream (N).			
	Kehl	WV-0598 (approx)	Road & Rail Bridge, West of Kehl over River branch. Road Bridge Masonry: Rail Bridge, steel.			Rd. 480 ft RR. 485 ft
177	Argiessans	WA-331898	Canal de la Haute Saone	Out	10	Photo
178	Botans	WA-338889	Canal de la Haute Saone	Out	10	Photo
179	Bourogne	WA-386848	Rhone-Rhine Canal	Mined	10	G-3
180	Dambenois	WA-345832	Rhone-Rine Canal	Mined	10	G-3

Railroad Bridges

572	Emagny	WO-663630	Ognon	Out	10	Photo
573	Montbard	WN-508931	Canal de Bourgoyne	Out	10	Photo

II BATTLE ORDER

159th Reserve Division

History:

Originally a mobilization and training division. Became a reserve division in 1942 and as such took part in the occupation of former unoccupied France (Clermont-Ferrand area). Was moved to BORDEAUX - BAYONNE sector in February 1944 where it remained until late in August 1944, when it started to move to the Northeast. First contacted vic. BESANCON 7/8 September 1944.

Commanding General:

Genlt. NAKE (Reported critically injured).

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Composition:

(NOTE: Exact composition still remains obscure, as a shift in units took place when the upgrading of this division was being contemplated.)

9th Res. GR.

a. Res Gren Bns.
I/?, II/355

b. Regt'l Coys.
Res. Inf. How. Co. 9
Res. AT Co 9
Res. Sig. Co. 9
Res. Engr. Co. 9

251 Res GR

a. Res Gren Bns.
I/57, II/235

b. Regtl Coys.
Res Inf. How Co. 251 (?)
Res AT Co. 251 (?)
Res Sig Co. 251 (?)
Res Engr Co. 251 (?)

? Res GR ("Hoelzer") (NOTE: This regt was formed to replace 15 Res GR which was incorporated into the 189 Res D)

a. Res Gren Bns
I/33, II/181

b. Regt'l Coys.
Res Inf How Co. (?)
Res AT Co. (?)
Res Sig Co. (?)
Res Engr Co. (?)

251 (?) Res Arty Regt.

9 Res Arty Bn (Lt) (?)
214 Res Arty Bn (Lt) (?)
251 Res Arty Bn (Med) (?)

15th Res Engr Bn.

159th Res Sig Bn.

Personalities:

Name		Rank	Unit
NAKE		Genlt	CG, 159 Res Div
ANGERMANN		1st Lt.	Adj. 251 Res GR
BOTTICHER		1st Lt.	CO 6/9th Res GR
BRANDT	(PW)	1st Lt.	CO(?) I(57)/251 Res GR
BRINKMANN		1st Lt.	CO, 4/9th Res GR
CLEVES		Capt.	I/9th Res GR
DICKS	(Reptd KIA)	1st Lt.	14/9th Res GR
GEISELMANN	(PW)	2nd Lt.	Ord. Offr/251 Gren Regt
HELTMANN	(PW)	2nd Lt.	13/251 Res Gr
IFKOWITSCH	(PW)	1st Lt.	CO, 2/251 Res GR
JAGER	(PW)	1st Lt.	CO 14/251 Res GR
KAMMER	(PW)	Lt Col.	CO, 251 Res GR
KOENIG	(PW)	Capt.	II(355)/9th Res GR
KUCH	(PW)	1st Lt.	CO, 13/9th Res GR
LANG	(PW)	2nd Lt.	3/251 Res GR

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Name		Rank	Unit
MOSER		1st Lt.	7/9th Res GR
SCHUSS	(PW)	1st Lt.	4/251 Res GR
STURMER		Major	CO, I(36)/Regt "Hoelzer"
SCHWAB		Capt	CO, II(205)/251 Res GR
SCHULTZE	(PW)	Capt.	CO, I(57)/251 Res GR
THIEM		1st Lt.	CO, Hq Coy/251 Res GR
HOELZEL		Lt Col.	CO, Regt "Hoelzel"
WURZER		Lt Col.	CO, 9 Res GR

A.P.O.:

00100	Hq/9th Res GR
00906	14/9th Res GR
02244	I(57)/251 Res GR
03279	II(131)/Regt "Hoelzel"
03626	II(355)/9th Res GR
07188(?)	15th Res Engr Bn
46451	Hq/251 Res GR
46764	14/251 Res GR
47584	13/251 Res GR
46639	I/9 Res GR
46887	II(205)/251 Res GR

* * * * * * * * * * * * * *

30th S.S. Infantry Division

This division was recently formed from units containing many Russians and Ukrainian "volunteers". It arrived in the LE VALDAHON area, apparently for training, 25th August 1944. PW, captured by SHAEF forces, stated elements of this division in the area N. of DIJON 1st Sept. 1944. The Division appears to be organized with three infantry regiments of three battalions each, each with three companies. The auxiliary units are reported to be in the embryo stage, while nothing is known of the artillery regiment.

It is believed that the total strength of the division does not exceed 6,000 and that approx. 10% of its personnel are German.

The morale of the unit is reported very low. This is born out by the report of one entire battalion (II/2 Regt) surrendering to the FFI during operations in the LE VALDAHON area.

Personalities:

Name	Rank	Unit
FRUHLING	Col.	CO, 30th SS I.D.
GANTZ	Major	CO, 2nd Regt
LIEBE	SS Hptstrmfhr	?
RING	" "	?
PENNINGER	" "	?
HURAWEZ	" "	?
FLIEGUTH	" "	?
FISCHBACH	" "	?

* * * * * * * * * * * * * *

Panzer Brigades

A document captured by SHAEF sheds some light on the organization and role of the new series Panzer Brigades which were set up on the 26th July 44.

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Organization:

Headquarters Company
1 Panzer Grenadier Battalion
1 Tank Battalion
1 Engineer Company
1 Workshop Platoon
1 Supply Company

(NOTE: The tank battalion has four companies. Organization: 1 company of 11 Assault Guns (75's on MIV chassis) and 3 companies of 11 "Panthers" each)

Role:

To counter-attack against enemy penetrations, with Panzer Grenadiers following up the tank breakthrough.

III MISCELLANEOUS.

Captured Documents

The following is an except from an unmailed letter found on a German Sergeant PW captured vic BESANCON. U.S. 3rd Inf Div reports that this is only one of a great number of letters of similar contents captured by its units and is indicative of the experiences and state of mind of the many German soldiers in this area:

----- We've been on the way withdrawing towards Germany since 21 August. Because of the divebombers we can travel only at night. These divebombers attack all convoys in the daytime and knock the hell out of them. All roads are jammed, so that we can make only very slow progress. Rows of vehicles lie alongside the road, burned out, and a lot of dead horses. Entire columns, who have lost their transportation, equipment and baggage, march on foot. This is a sad retreat. All towns and villages through which we pass are empty. Apartments have been plundered, everything is in disorder. The bus, on which I travel, received two hits from a strafing plane. As soon as planes appear in the sky, all vehicles are left on the road and everybody takes off as far and as fast as possible. At night we were shot at by terrorists twice. One of our vehicles hit a mine and blew up. So far we have had 2 wounded. I, myself, thank God, am still well and in good spirit.

At present we're working here in BESANCON for a few days and then we'll go on. It's 123 kms to Germany from here. Let's hope we'll get there safely. Up to now we slept in vehicles. The beautiful weather of Southern France is over now, and it rains here frequently, something we haven't seen for months. It is rather chilly, too, so that I have to wear heavy underwear and warm clothes. There's no more wine or fruit here------

(Source: US 3rd Div G-2 Report 24)

7th Army G-2

* * * * * * * * * * * * * * *

The following Report on Expenditure of ammunition by a German Sergeant is interesting as an example of German official routine and also indicates an economy of ammunition that reflects probable scarcity:

10 February 1943

Schell, Sgt.
1st Co., 346th Heavy AA Bn.

To: 1st Co., 346th Heavy AA Bn.

I herewith report to the battery that on 15 Jan 43, upon order of the battery C.O., I used one round of 08 ammunition in shooting a cow. I request replacement of this ammunition.

Schell, Sgt.

Received:
1 cartridge 08, received on 20 Feb. 43 - Schell, Sgt.

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WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2.

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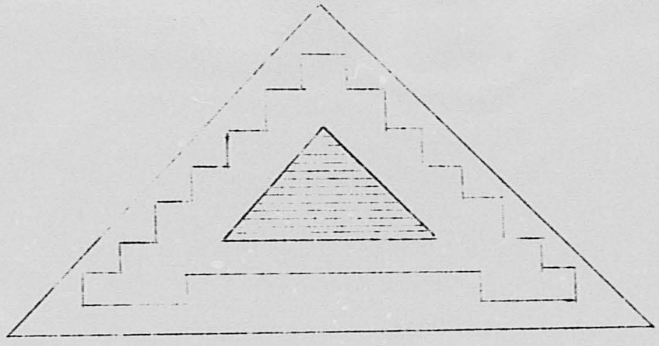
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HEADQUARTERS SEVENTH ARMY
Office of the A. C. of S., G-2
APO 758 US ARMY

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INFORMATION BULLETIN

No. 12

7 September 1944

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TABLE OF CONTENTS

I Communications

Road and Rail Bridges

II Battle Order

History and Organization of the 16th Inf Div.

FW Breakdown as of 0324008 September 1944

III Defenses

The Siegfried Line

IV Counter Intelligence

German Officers Training

Weapons for German Medical Personnel

V Miscellaneous

Morale

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C O N F I D E N T I A L

I COMMUNICATIONS

Road and Rail Bridges

The following changes and additions to the Road and Rail Bridge report listed in Section II, "Communications", G-2 Information Bulletin No. 9, dated 27 August 1944, have been noted:

Corrections:

Delete road bridge number 127.

Additions:

Road Bridges

Number	Location	Coordinate	Obstacle	Status	Date	Source
135	Gevry	WC-368310	Doubs	Cut	4	Photo
136	Choisey	WC-375330	Doubs	Cut	4	Photo
137	Belmont	WC-477286	Loue	Cut	4	Photo
138	Montbarrey	WC-503285	Loue	Cut	4	Photo
139	Chissey	WC-580297	Loue	Cut	5	Photo
140	Marnay	WB-985935	Saone	Cut	4	Photo
141	Tournus	WB-976770	Saone	Cut	4	Photo
142	Challons	WB-926010	Saone	Cut	4	Photo
143	Sermoye	WT-028718	Seille	Cut	4	Photo
144	Louhans, S.	WT-213839	Valliere	Cut	4	Photo
145	Louhans	WT-208856	Seille	Cut	4	Photo
146	Gigny	WB-999887	Saone	Cut	4	Photo
147	Parcey	WC-400288	Loue	Cut	5	G-2
148	Gergy	WB-996124	Saone	Cut	5	G-2
149	Sermesse	WC-093153	Doubs	Cut	5	G-2
150	Mavilly	WC-142193	Doubs	Cut	5	G-2
151	Peseux	WC-311245	Doubs	Cut	5	G-2
152	Neublans	WT-285180	Doubs	Cut	5	G-2
153	Louhans	WT-235857	Overpass	Cut	5	Visual
154	Louhans	WT-230845	Minor Stream	Cut	5	Visual
155	Arbois, W.	WC-586153	Minor Stream	Cut	5	G-2
156	Besancon	WC-788530	Doubs	Cut	5	Photo
157	Audincourt	WA-323728 (Blue)	Doubs	Cut	5	Photo

Rail Road Bridges

558	Allerey	WC-030146	Saone	Cut	4	Photo
559	Moley	WC-341283	Doubs	Cut	4	Photo
560	Parcey	WC-402238	Loue	Cut	4	Photo
561	Challons, S.	WB-910979	Overpass	Cut	4	Photo
562	Challons	WB-910993	Thalie	Cut	4	Photo
563	Louhans, S.	WT-210840	Valliere	Cut	4	Photo
564	Louhans	WT-207852	Seille	Cut	4	Photo
565	Arbois, N.	WC-609195	Overpass	Damaged	4	Photo
566	La Barge	WC-135204	Overpass	Cut	4	Photo
567	Mavilly	WC-135195	Doubs	Cut	5	G-2
568	Belfort, S.	WA-342918 (Blue)	Doubs	Cut	5	Photo

II BATTLE ORDER

History and Organization of the 16th Inf Div.

EMBLEM:



HISTORY:

First identified at STRASBURG (Ukr. V) in 1941, as a Mobilization and Train-

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ing division. Became a Reserve division (158 Reserve Division) late in 1942 and, as such, took part in the occupation of former unoccupied FRANCE. In March 1943, it was transferred to the L. ROCHELLE area. In early August, the 158 Reserve Division was upgraded and became the 16 Infantry Division. Document, dated 1 September 1944, captured by SHAEF forces, identified this unit in MONT-BARD sector.

COMMANDING OFFICER: Genlt. HAECKEL.

COMPOSITION:

221 Grenadier Regt.
223 " "
225 " "
? Arty. Regt.
? Engr. Bn.
? Recn. Bn.
? Anti. Unit.
? Sig. Bn.
NOTE: - Auxiliary number not known.

PERSONNEL: Personnel included Volksdeutsche in 1943. 40% of unit were experienced men, 60% raw recruits.

PERSONALITIES: (Unit to which they are attached not known).

ERNST - ?
FLEGEL - Lt.
FRIEDRICH - Maj.
HAUSDORF - Maj.
HIPPE - Lt.
HOEFER - Maj.
HOSSFELD - Lt.
KELLNER - Paymaster
KELLER - Lt.
KERBER - Lt.
KOSOK - Lt.
KRAHL - Lt.
KRYSCEK - 1st Lt.
KUNITH - Lt.
LANG - Lt.
LASSEN - Lt.
LUDSE - Lt.
NEUMANN - Lt.
NORKWITZ - Lt.
RUCHE - Lt.
MULLER - Lt.
PLAQUET - Dr.
PLATZHEIR - Lt.
PLUTZHANN - Maj.
GREINER - Lt.
GROSSE - Lt.
GRUNER - Lt.
RIEBERSTEIN - Maj.
ROSE - Lt.
SCHRAMM - Maj.
SCHULTE - ?
SCOPPE - ?
STEFFENHAGEN - Lt.
SUCHANDEL - Lt.
TAUSEND - Lt.
TSCHANEL - Lt.
WAGNER - Maj.
WEIDE - Lt.
WELKE - Dr.
WELLER - Maj.
WEISSMANN - Maj.
WOLFF - Lt.
DAVID - Capt.
HASSFELD - Lt.
KOSOK - Lt.
KRUFT - Lt.
GIESER - Capt.

COMPILATION OF PW'S AS OF 032400

11th Panzer Division			
Div. Hq.			2
110 P.G.R.			
I Bn		16	
II Bn		40	
AT Coy (10 Coy)		10	
	Total Regt.		66
111 P.G.R. Hq.		2	
I Bn		5	
II Bn		8	
	Total Regt.		15
15 Panzer Regiment		7	
	Total Regt.		7

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119 Panzer Arty			
I Bn	7		
II Bn	2		
III Bn	1		
Total Regt.		10	
11 Pz. Recce.		21	
209 Engr. Bn.		5	
H. Flak Bn 277		3	
FEB 119		11	
61 AT Bn		12	
Penal Plat.		3	
110 Repl. Bn.		4	
Total Div.			159
148 Res. Div.			
239 G.R.			
Hq.	10		
I Bn (327)	76		
II Bn (372)	28		
III Bn (444)	92		
IV Bn (661 Ost)	385		
13 Coy	83		
14 Coy	50		
15 Coy	1		
Total Regt.		725	
8th G.R.			
I Bn	18		
II Bn	48		
III Bn	134		
13 Coy	1		
14 Coy	5		
Total Regt.		206	
Regt. Kessler		277	
Total Regt.			
8th Arty Regt.			
Hq	1		
I Bn	3		
II Bn	5		
Total Regt.		9	
8th Engr. Bn		21	
148 Res. Engr. Coy		21	
148 Fus. Bn.		57	
1038 AT Bn		209	
Div Services		4	
Total Div.			1529
189 Reserve Division			
Div Hq		15	
Div Assault Co.		115	
28 Res. Regt.			
461 Res. Bn.	19		
38 Res. Bn.	15		
Total Regt.		34	
15 Res. Regt.			
Hq.	3		
163 Res. Bn.	4		
15 Res. Sig. Bn.	1		
Total Regt.		8	
15 Res. Arty. Regt.			
28 Res. Arty. Bn.	1		
Total Regt.		1	
214 Rec. Sig. Bn.		3	
Div Services		14	
262 AT Co.		56	
Total Div.			246

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198 Infantry Division.			
Div Hq.		3	
305 G.R.			
Hq.	12		
I Bn	112		
II Bn	190		
13 Co	10		
14 Co	16		
	Total Regt.	340	
308 G.R.			
Hq.	32		
I Bn	127		
II Bn	162		
13 Co	5		
14 Co	9		
	Total Regt.	335	
326 G.R.			
Hq.	35		
I Bn	121		
II Bn	169		
13 Co	12		
14 Co	18		
	Total Regt.	355	
235 Arty Regt.		38	
235 AT Bn		75	
235 Sig. Bn.		56	
191 Fus. Bn.		161	
235 Engr. Bn.		45	
Division Services		17	
	Total Div.		1425
242 I D.			
Div. Hq.		3	
917 G.R.			
Hq.	9		
I Bn	62		
II Bn	169		
III Bn	222		
IV Bn	180		
13 Co	7		
14 Co	7		
	Total Regt.	650	
918 G.R.			
Hq.	11		
I Bn	64		
II Bn	128		
III Bn	36		
14 Coy	10		
IV Bn	5		
	Total Regt.	254	
765 G.R.			
Hq.	78		
I Bn	442		
II Bn	486		
III Bn	370		
IV Bn	806		
13 Co	27		
14 Co	94		
	Total Regt.	2303	
242 Arty Regt.			
Hq.	8		
I Bn	61		
II Bn	6		
III Bn	8		
	Total Regt.	83	

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242 Engr. Bn.	52		
242 AT Bn	4		
242 Sig. Bn.	12		
242 Med. Bn.	19		
242 FEB	18		
242 AT Coy	3		
Misc. Div. Serv.	95		
Total Div.		3502	
244 I D.			
Div Hq.		12	
932 G.R.			
Hq.	33		
I Bn	49		
II Bn	3		
III Bn	125		
13 Coy	3		
14 Coy	9		
Total Regt.		222	
933 G.R.			
Hq.	16		
I Bn	172		
II Bn	141		
III Bn	281		
13 Coy	17		
14 Coy	20		
Total Regt.		647	
934 G.R.			
I Bn	1		
II Bn	50		
III Bn	21		
14 Coy	7		
Total Regt.		79	
244 Arty Regt.			
Hq.	8		
I Bn	10		
II Bn	1		
III Bn	46		
IV Bn	29		
Total Regt.		94	
FEB 244		11	
Div. Services		5	
244 Sig. Coy		5	
Total Div.			1075
338 Infantry Division			
Div. Hq.		6	
757 G.R.			
Hq.	2		
I Bn	220		
II Bn	505		
III Bn	2		
15 Co	1		
Total Regt.		730	
758 G.R.			
Hq.	2		
I Bn	4		
14 Co	1		
Total Regt.		7	
759 G.R.			
Hq.	2		
II Bn	1		
Total Regt.		3	

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338 Arty Regt.				
I Bn		1		
II Bn		53		
IV Bn (?)		5		
	Total Regt.		59	
338 AT Co			42	
Division Services			25	
	Total Div.			872
716 I. Div.				
726 G.R.				
I Bn		2		
II Bn		1		
	Total Regt.		3	
736 G.R.				
Hq.	Total Regt.		1	
716 Engr. Bn			1	
1716 Arty Regt.			1	
	Total Div.			6
157 Res. Div.				
157 Res. Regt.				
Hq.		28		
179 Res. Bn.		55		
217 Res. Bn.		764		
157 Sig. Co.		55		
13 Coy		4		
14 Coy		146		
157 Res. AT Co.		205		
	Total Regt.		1257	
1 Res. Unter Regt.				
1736 Res. Unter Bn		225		
99 Unter Bn		3		
1 Res. AT Coy		75		
	Total Regt.		303	
7 Res. Arty Bn			127	
7 Res. Engr. Bn			796	
7 AT Coy			12	
7 I.H. Coy			78	
179 Repl. Bn			28	
1057 Med. Coy.			61	
	Total Div.			2662
G.A.F. Training Div.				
71st GAF Regt.				
Hq.		14		
I Bn		8		
II Bn		22		
III Bn		98		
13 Coy		19		
14 Coy		15		
	Total Regt.			176
63rd GAF Regt.				
Hq.		1		
I Bn		25		
II Bn		68		
III Bn		7		
IV Bn		47		
13 Co		29		
14 Co		3		
	Total Regt.			180
90 GAF Regt.	Total Regt.	45		
	Total Div.			401

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LXII Corps Staff.			
Staff	139		
Einheit Voker	37		
Einheit Siegfried	62		
462 Sig. Coy	125		
562 Ration Depot	21		
609 Supply Bn	229		
MP	8		
18 GAF Liaison Coy	1		
Total LXII Corps			622
LXXXV Corps		53	
A.A.A. Units			
5 AA Bde	1		
14 AA Bn	5		
18 GAF AA Regt.	27		
21 AA Bn	3		
28 Light AA Res Bn	2		
35 AA Bn	19		
41 AA Bn	8		
69 AA Regt.	12		
85 AA Regt.	50		
114 AA Bn	13		
235 AA Bn	2		
346 AA Bn	74		
371 AA Bn	6		
391 AA Bn	6		
446 AA Bn	1		
481 AA Bn	42		
501 AA Bn	65		
556 AA Bn	28		
557 Mixed AA Bn	25		
582 AA Bn	6		
731 AA Bn	9		
741 AA Bn	3		
901 AA Bn	22		
923 Light AA Bn	2		
1256 AA Bn	1		
Total		432	
Artillery Units.			
C. Arty Bn, 19 Army	12		
194 Arty Regt	4		
202 Arty Bn	1		
265 Arty Bn	17		
309 Heavy Arty Repl. Bn	2		
611 Marine Arty Bn	1		
625 Marine Arty Bn	12		
627 Marine Arty Bn	180		
640 Arty Bn	4		
692 RR. Arty Btry	4		
749 Arty Btry (GHQ)	1		
819 Naval Arty Bn	1		
1190 C. Arty Bn	37		
1195 Arty Bn	343		
1197 Arty Bn	51		
1260 C. Arty Bn	1		
1290 C. Arty Bn	56		
1291 Arty Bn	298		
1298 Arty Bn	12		
Total		1037	
Engineer Units			
Engr. Rock Unit	2		
1st Fortress Constr. Staff	2		

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10th Italian Engr Co.	1		
11th Italian Engr. Co.	1		
11th Fortress Engr. Bn.	2		
14th Fortress Engr. Bn.	179		
Fortress Engr. Staff, 19 Army	69		
30 Fortress Engr. Bn.	5		
124 Engr. Bridge Bn.	2		
601 Engr. Bn.	1		
669 Engr. Bn.	111		
Engr. Bn "Boheman"	11		
Total		376	
Breakdown Total		14,397	
Misc. GHQ & unidentified units including PW's taken by Army "B"		48,295	
Grand Total			62,692

III DEFENSES

The SIEGFRIED LINE.
(From War Office Weekly Intelligence Review No. 41)
24 May 1944

1. Introduction

(a) The Siegfried Line is a system of fortifications stretching along the Western frontiers of Germany from KLEVE to BASLE with, in addition, certain reserve positions in the rear. The fortifications are organized in strength according to the importance of the regions to be protected, and the suitability of the ground for operations by armored forces. They system, except for some 50 miles at its Northern end, is continuous. The course of the line is shown on the sketch map attached and is described in more detail in Para 3 below.

(b) Preliminary work on the Siegfried Line was begun immediately after the reoccupation of the demilitarized Rhineland in 1936, and construction was given the highest priority from the summer of 1938 onwards. At the outbreak of the war the line, still for the most part under construction, extended from 30 miles NORTH of AACHEN to BASLE. By May 1940 it had been extended, though in diminishing strength, to KLEVE in the NORTH, and was largely complete. After the fall of France no further work appears to have been done on the line. It remained, apart from the dismantling of the wire entaglements and the ploughing in of some of the field works, completely inactive and is still in this state. The concealment of the works was carefully planned from the beginning, and earth was piled around and on top of the forts wherever possible. Four years of inactivity and undisturbed natural growth has greatly improved this concealment, and the forts are now extremely hard to locate.

2. Nature of Fortifications.

(a) The line consists for the most part of a zone of small concrete forts sited to support each other and to produce a closely interlocked zone of fire. This zone reaches its maximum depth in parts of the SAAR area, where the distance from the anti-tank obstacle onthe forward edge of the position to the rather scattered works at the rear edge is nearly 3 miles (e.g. area SE of ZWEIBRUCKEN). Here also the works reach their maximum density of about 40 forts per 1000 yards square in the forward part of the position to something less than 20 in the rear part. In contrast to this, the line along the RHINE from KARLSRUHE to BASLE has an average depth of about ½ mile, and consists in the main of only two rows of forts, the first along the actual banks at intervals of 400 yards and the second in rear with its forts placed between the gaps in the first line (e.g. area NORTH OF BASLE).

In addition to those forts designed to contain weapons, there are a number of unarmed shelters for HQs, reserve troops and ammunition. The forts, further details of which are given in Appendix A, are designed to contain machine guns and anti-tank guns. The high trajectory weapons, including nearly all the

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artillery except the anti-tank, were not provided with concrete protection, and were sited in open field works. Anti-aircraft artillery, usually sited in rear of the fortification belt, was also in open emplacements.

(b) An anti-tank obstacle, consisting of either concrete dragons teeth, curved stell rails, ditches, or escarpments, runs along the forward edge of the position. Mines were laid to support the anti-tank obstacle, and mine-fields were also laid in advance of the obstacle to conalize the attack on to the strongest defences.

(c) Communications. The majority of the works were linked with each other by communication trenches. Only the larger works in rear are thought to be linked by underground passages. There is a fairly extensive network of buried telephone cables (2 m deep) between the works. On the RHINE, for example, the works are inter-connected in groups and each group is itself connected with a continuous cable skirting the RHINE at a distance of two to three miles.

3. Description of the Line.

(a) The RHINE province, NORTH of the MOSELLE.

(i) This area falls into two distinct regions, the COLOGNE plain leading to the industrial RUHR, and the wooded EIFEL massif.

(ii) In the area of the COLOGNE plain NORTH of AACHEN the Siegfried Line is at its weakest, consiting only of a thin line of forts following the frontier, and becoming very widely separated in the NORTH. Photographic reconnaissance in the GOCH area discloses only four forts in a strip of 8 miles. AACHEN itself is more strongly defended, and a second line of forts runs to the East of the town and continues parallel to the first line for some 40 miles before rejoining the latter at HALLSCHLAG in the EIFEL.

(iii) The defences in the EIFEL massif are typical of those in other mountainous and wooded sections of the line. They consist of a zone of forts of little depth, covered at intervals by an anti-tank obstacle, formed mostly by concrete dragons' teeth.

(b) SOUTH of the MOSELLE to KARLSRUHE.

(i) In this area the relatively flat PFALZER BERGLAND and RHINE plain are bounded by the wooded hills of the HUNSRUCK, the SAARBRUCKEN Forest and the HAARDT, and the forest area of the BIENWALD.

(ii) This area contains the three strongest sections of the Siegfried Line, covering the PFALZER BERGLAND on each side of the SAARBRUCKEN Forest, and the WEISSENBURG Gap between the HARDT and the BIENWALD. The strongest of these three sectors is that covering the PFALZER BERGLAND between the HUNSRUCK and the SAARBRUCKEN Forest. Here the line is double, dividing South of MERZIG. The forward line, continuous but of no very great depth, follows closely the east bank of the SAAR; the rear line, which is of greater strength consisting of a dense zone of fortsabout 2½ miles deep, passes in front of LEBACH and continues though in reduced strength, through the SAARBRUCKEN Forest to rejoin the forward line ten miles east of SAARBRUCKEN.

(iii) Some 10 to 15 miles behind the main forward positions, and running roughly parallel to them, there are indications of areserve line. Information on this line is, however, scanty, and little is known of its strength. Recent air reconnaissance has confirmed sections of this line EAST of TRIER and South of LANDAU, but cover is as yet very incomplete.

(c) The RHINE and BLACK FOREST

(i) The RHINE, owing to its swift and wide course, the changing nature of its navigable channel, and the complexity of old arms of the

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East bank, constitutes a first class obstacle. The densely wooded hills of the BLACK FOREST are separated from the river by an alluvial plain some ten miles wide, crossed by numerous streams.

(ii) The defences consist for the most part of a double line of forts enfilading the river from the east bank. These are placed at intervals of about 400 yds, thickening up at bridges and likely crossings. Behind the line on the river, there are occasional short reserve positions blocking the entrances to the valleys leading into the BLACK FOREST.

(iii) The junction of the RHINE line with the WEISSENBURG - BIENWALD positions is strengthened by the continuation of the former to GERMERSHEIM and the latter to MALSCH.

(d) NECKAR - MAIN Positions.

Prior to the reoccupation of the demilitarized zone of 1936, the Germans began work on defences on the East bank of the NECKAR North and South of HEILBRONN, and probably also East of the MAIN from BUDINGEN to the ODENWALD. These defences are not thought to be comparable in strength to the main Siegfried Line, and the existence of much of the line North of the ODENWALD is doubtful. In view of the subsequent construction of the main Siegfried Line further to the West, the completion of these positions may have been considered unnecessary.

APPENDIX 'A'

DESIGN AND STRENGTH OF CONCRETE POSITIONS

1. DESIGN

(a) Air photographs show that the forts of the Siegfried Line are of a large number of different types. Information concerning the design and exact armament of all these types is unfortunately lacking, but it can be said that they fall into three main categories, viz machine gun forts, anti-tank gun forts, and unarmed shelters. None of these forts is very large, the usual complement being a section of 10 men, and an average size can be taken very approximately as 35 ft by 45 ft. They usually consist of one or two fighting chambers and one or two living rooms. In some cases there is no direct communication between the fighting and living spaces except by speaking tube. The embrasures are in the forward part of the works and the fields of fire are almost always to a flank, the works being frequently defiladed from the front. In most cases an additional embrasure is included to enable the entrance (in the rear) to be covered by fire. In some cases embrasures are protected by short flanking walls. The average height of the forts from foundation to roof (exterior measurement) is about 20 ft, of which about 6 ft is below the level of the ground. Earth is piled round the sides and thence over the roof to a depth of not more than a foot. The anti-tank forts are larger than those for machine guns. It is probable that the great majority of the anti-tank forts were designed to contain the 37 mm anti-tank gun, which was the standard anit-tank gun of the German Army at the time the line was built. A few rather larger forts, usually sited on the rearward edge of the position and frequently on a reverse slope, probably contained heavier artillery, although it is unlikely that anything heavier than a 10.5 cm gun was employed. These works are also thought to be equipped in certain cases with high angle weapons (trench mortars of various calibres) which can be used to strengthen the general barrage at certain points. They sometimes consist, furthermore, of several concreate works placed side by side, connected with one another by underground passages, the whole being surrounded by an anti-tank obstacle. They are the only type of SIEFGRIED work which is in any way similar to the "gros ouvrages" of the MAGINOT.

(b) A proportion of the works are fitted with fixed steel coupolas, to provide for observation and close defence. In most cases, the works so fitted are unarmed shelters but individual instances of forts with cupolas have also been located. In the case of shelters, it is normal for the cupola only to be visible, the remainder of the work being embedded in banked up earth.

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(c) Little is known of the design of the unarmed shelters. Photographs show them to conform roughly in size with the armed forts.

2. STRENGTH

(a) Although our knowledge of the various designs of forts is limited, it is very probable that, according to their date of construction, they were all built to a standard strength.

(b) Works constructed in 1938 had reinforced concrete walls and roofs 5 foot thick, while the armour plate surrounding the loopholes was 3 7/8" thick. In the case of works constructed in 1939 these dimensions were increased to 6 ft 8 in and 7 7/8" respectively.

In many cases the 1938 forts (particularly those on the banks of the RHINE) had additional strengthening added against erosion and undermining by by the construction of an apron 3 ft 4 in thick which consisted of two rows of steel sheet piling in front of the outside walls with a filling of unreinforced concrete between the rows. Above this a second wall of reinforced concrete was constructed against the original outside walls up to the level of the embrasures or to roof level in the case of blank walls. The thickness of this extra wall was said to be up to 5ft.

(c) The grade of cement used in both cases was quick setting. One isolated report mentioned that the minimum crushing resistance was laid down as 3,550 lbs/sq in.

Reinforcement was uniformly distributed by means of horizontal and vertical "mats" through the entire thickness of the concrete:-

Diameter of bars 5/8" to 1/2"
Spacing of bars 6"
"Mat" intervals (horizontal or vertical) 10"

Additional reinforcement was fixed in the roof as follows:-

R.S.Js. Size 8" to 10" depth
Spacing 1 ft to 1 ft 6 in.

The lower flanges of the R.S.Js. support 7/32" steel plates to form permanently fixed shuttering to the underside.

(d) The cupolas are thought to be made of 7 3/4" armor plate, to be about 8 ft 9 in high (but only projecting about half this distance above the roof of the fort) to vary in diameter from 6½ft to 9ft 9in and to have six loopholes equally spaced round the circumference and measuring 15½" x 10".

IV COUNTER-INTELLIGENCE

GERMAN OFFICER TRAINING.

A captured memorandum dated 13 August 1944, states that all political leaders of the N.S. Party and all leaders of organizations and of the labor service will be given preference in the selection of officer candidates. Among these leaders of the Hitler Youth, the instructors in national political training schools the Adolf Hitler School, and leaders of company size units in the S.A., S.S., and the National Socialist Motor Security Corps.

WEAPONS FOR GERMAN MEDICAL PERSONNEL.

A German order issued by the 198th Inf. Div. to their G-3, G-4, and Medical Staff contains the following two paragraphs:

"All medical facilities used to care for the wounded are to be marked with the Red Cross. The medical personnel in the Medical Corps are to wear the Red Cross arm band.

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"The use of weapons in their own protection or that of the wounded is permitted the medical personnel. The effect of modern weapons is such that this defense can not take place near the casualty himself, but depends of the situation and must be carried on at the spot where it is most effective and for as long as it furthers the security and transport of the casualty".

V MISCELLANEOUS

Morale

Captured Document Forbidding Suicide.

The following document was obtained by French agents and throws an interesting side-light on enemy morale in the South of France and more especially an the LXII Res. Corps, whose commander Gen. Inf. Neuling was captured by American paratroopers soon after the landing:

General Kommando - LXII Res. Korps GHQ, 22 June 1944
Abt. II a - Az.4 Nr. 5271/44 geh SECRET

SUBJECT: Suicides

From 3 June to 20 June, there have been three cases of suicide in my Corps (2 Officers and 1 Non-Com).

I call strongly to your attention the fact that suicide of members of the Wehrmacht in time of war is considered desertion.

In the oath to the flag, the soldier has sworn absolute obodience and to give his life unreservedly for Fuehrer, people and homeland. He has no right to dispose of his life; he who does so cowardly and despicable.

As a result, suicides do not have the right to burial with honors or to military interrement.

They must be buried in silence and unattended, in civilian cemeteries, away from the tombs of the natives.
- See exceptions H.V.Bl 1942, Chapter B, Par. 476.

I order that every higher officer personally instruct all unit commanders and all officers under his command to this effect.

It is a duty of pure friendship on the part of every leader and superior and, finally, of each soldier to intervene effectively, and at least to report at once to his immediate superior if he has discerned a changed morale, admitting the deduction of suicidal intent.

Suicide is unworthy of a German soldier.

Unit Commander and N.S.F.O. (Nat'l Socialist Field Organization) are to instruct troops to this effect.

Signature illegible.

Censorship of Photographs

The following document eminating from the Hq 19th Army would appear to indicate that there were elements in that organization who, even in June 1944, realized that the war was not going so ell for Germany, and wished to prevent documentary evidence of atrocities falling into the hands of the Allies, which might later be used to convict war criminals:

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A.O.K. 19.-
Abt. I.c. Nr 2721/44 Geh. Army Headquarters, 19 June 1944

Taking of pictures of any execution by shooting is strictly forbidden.

In certain individual cases, where taking of a picture is absolutely necessary for reasons of the service, authorization cannot be granted by anyone of lower rank than Division Commander.

Films made by specific request are to be sent, undeveloped, under the classification SECRET, to the O.K.H./W.Pr.

Military services charged with such executions are required to take all necessary measures and to forbid presence of spectators.

Pictures and rolls of film showing previous executions are to be taken in as soon as possible and to be handed over to the O.K.W. (W.Pr.).

WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2

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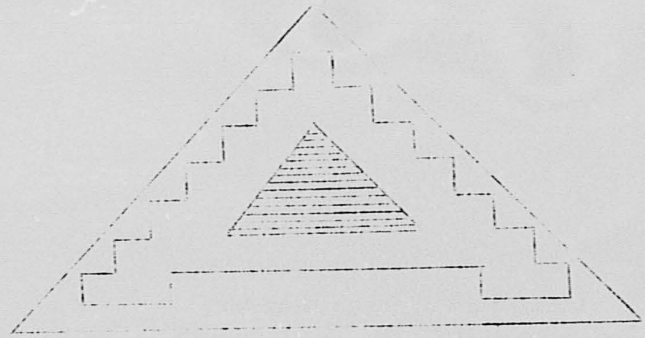
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Number 11

1 September 1944

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TABLE OF CONTENTS

I Communications

Road and Rail Bridges

II Battle Order

Field Order of 1l8th Res. Div.

LXXV Corps Day Report

New Estimate of Combat Effectiveness

Hist. and Org. 90th P.G. Div.

Hist. and Org. 5th Mountain Div.

Enemy Order of Battle - No. France,

So. France and Italy

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I COMMUNICATIONS

Road and Rail Bridges

The following changes to the Road and Rail bridge report listed in Section II, "Communications", G-2 Information Bulletin No. 9, dated 27 August 1944, have been noted.

CORRECTIONS: (Refer to previously listed bridges by number)

Numbers 10, 11, 14, 15, 17, 34, 81, 508 - Change date to 30th.
Numbers 540, 543, 544 - Change Status to IN, Date to 30th.

ADDITIONS:

Road Bridges

Number	Location	Coordinate	Obstacle	Status	Date	Source
102	Beaulieu	Vs-649808	Railway	Out	30	Photo
103	Nice	Vs-596815	Paillon	Damaged	30	Photo
104	Eze	Vs-657822	Minor Stream	Damaged	30	Photo
105	St. Laurent	Vs-674816	Minor Stream	Out	30	Photo
109	Bramans	Bk-4733	Arc	Out	27	Photo
110	Sollieres	Bk-5138	Arc	Out	27	Photo
111	Lanslebourg	Qh-4358	Arc	Out	27	Photo
112	Lanslebourg	Qh-4458	Arc	Out	27	Photo
113	Lanslebourg, W.	Qh-4558	Arc	Out	27	Photo
114	Bussoleno	Qh-636385	Rip	Out (Bypass)	28	Photo
115		Qh-6618	Mtn. Stream	Out (Rep.)	28	Photo
116		Qh-5925	Mtn. Stream	Out (Bypass)	28	Photo
117		Qh-5229	Mtn. Stream	Out (Rep.)	28	Photo
118	St. Paul	Bp-512517	Ubaye	Out	28	Photo
119	St. Paul	Bp-514499	Ubaye	Out	28	Photo
120	Valdieri	Vn-332642	Stream	Out (Bypass)	28	Photo
121	Moiola	Vn-7649	Demonte	Out (Rep.)	28	Photo

Temporary Road Bridges in Use

106	Touron Sur Rhone	Bh-973029	Minor Stream	Replacing #21	30	Photo
107	Avignon, S.	Bs-987825	Durance	Replacing #39	29	G-3

Rail Bridges

551	Menton	Vs-767861	Minor Stream	Damaged	30	Photo
552	Bussoleno, W.	Qh-603392	Rip	Out	27	Photo
553	Bussoleno	Qh-7136	Rip	Out	27	Photo
554	Chalon	Wn-914004	Saone	Out	31	Photo
555	Macon	Ws-920460	Saone	Out	31	Photo

Fords

4	Livron, W.	Bn-9277	Drome	In	30	Photo

Ferries

3	Harnay	Ws-980940	Saone	Pos. Ferry	31	Photo
4	Crechos-s-Saone	Ws-908411	Saone	NO ferry-but road br.	31	Photo

II BATTLE ORDER

148 DIVISIONAL FIELD ORDER - 271800B AUGUST 1944

Captured documents and overlays (See Annexes 1 and 2) give the detailed Order of Battle and mission of the German LXXV Corps opposing our east flank.

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C O N F I D E N T I A L

- EXTRACTS -

1. It has to be considered that the enemy, during his progress of operations in South FRANCE, will try to gain possession of the West ALP passes in order to accomplish a breakthrough into upper ITALY. Strong operations of partisans in the West ALPS can be taken as an indication of preparations for such intentions.

LXXV Corps prepares for the defense in the West ALP positions to the Mediterranean Sea, along the French-Italian border, and along the Ligurian coast from the west front to include ST. LORENZO AL MARE, and will prevent an enemy breakthrough into upper Italian territory.

UNITS TO BE EMPLOYED

157th Reserve Mountain Division on the right flank (north), 5th Mtn. Division, center, 148th Reserve Division left sector (south).

5th Mountain Divisional Boundaries: AIGULETTES, 25 km. south EMBRUN - ENCRASTMAYES - BAGNI, 15 km. S.E. C.d. LARCHE - MT. MATTO - LIMONE, 20 km. south CUNEO.

Boundaries with Corps Unit LIEB: ST. LORENZO AL MARE (incl. 148th Reserve Division)

2. 148th Division will fight its way from the "blue" line (VAR) position back to the west ALPS. The "blue" line to be held as long as possible without too many casualties and danger of being cut off. West ALP position will be defended with following attached units: Mountain Regiment z.b.V. "MEERALPEN", High Mountain Battalion 4, Mountain Demonstration Battalion MITTENWALD. South flank of corps to be defended with following strong points:

a. Pass du TURINI (Cme LA CAIMETTA).
b. Road NICE - SOSPEL - BREIL (Col de BRAUS).
c. Road NICE - VENTIMIGLIA (MT. AGEL - ROQUEBRUNE).

Division takes command in West ALP sector 281200 August. Mountain Regiment z.b.V. MEERALPEN henceforth attached to division.

Command in coastal sector is assumed after main body 239 Reserve Grenadier Regiment arrives (earliest, 31 August). For details see Annex 1 and 2.

3. Withdrawal from "blue" line on 29 August. Main body at 2100 hours, rear guard only, upon pressure from enemy or if danger exists of being cut off.

4. Detailed Orders for Withdrawal.
a. Reinforced 239th Reserve Grenadier Regiment with Divisional Fusilier Battalion under command, is to proceed as follows:

1st Battalion will assemble in vicinity of ST. ISIDORE, then proceed to north of MENTON, and will be employed on coastal sector, ROQUEBRUNE, exclusive, to LATTE, inclusive, relieving elements of 8th Reserve Grenadier Regiment and 80th Grenadier Regiment.

2nd Battalion will move over upper CORNICHE to vicinity MORTOLA, and then to area north of SAN REMO.

3rd Battalion withdraws over upper CORNICHE to vicinity east of ROQUEBRUNE. The withdrawal of the three battalions has to be carried out by widely skirting the "terrorist infested" town of NICE.

b. 8th Reserve Grenadier Regiment.

1st and 2nd Battalions are to be employed by 281800 August, as per verbal orders, in the West ALP position (for details see Annex).

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3rd Battalion will move into area MOULINET and will be employed in the new sector as quickly as possible.

c. Reinforced Field Replacement Battalion will first assemble area north of MORTOLA and then to assigned sector EAJARDO - CERIANO.

HAKO (Harbor Commander) NICE will be moved to SAN REMO.

d. Mountain Regiment z.b.V. (special purpose).

MEERALPEN will carry out tasks as laid down by 90th P.G. Division, and will then proceed rapidly to the defensive reserve sector, as ordered by LXXV Corps and 90th P.G. Division.

e. Division Fusilier Battalion is under command of 239th Reserve Grenadier Regiment, and the battalion will take up positions on general line: LA POINTE DE CONTES - CANTARON - LA TRINITE - MT. VINAIGRIER. Mission: Occupation of most important roads, road junctions, and cross roads, in order to prevent quick pursuit by enemy after withdrawal of divisions from "blue" line to new sector.

f. The Artillery will move in back of the new position. At least one battalion to be effective along the West ALP sector and the main body along the coastal front.

g. Anti-Tank Unit. Anti-tank defense to be kept in mobile reserve. The unit is responsible for its own safe withdrawal.

h. Engineers.

8th Reserve Engineer Battalion carries out orders for blocking and demolition. It is of utmost importance to block horizontal and vertical lines of communication which are in an approximate area: Line ST. MARTIN - VESUBIE - UTELLE - NICE, and the new positions, to be effected in such a manner that a quick advance by the enemy, and especially close following up of his artillery, is made impossible. The employment of the battalion in the new sector is: one company per regiment.

Attention - Terrorist Danger. Do not go singly - only armed and in groups. During withdrawal, skirt the town of NICE in a wide circle, as attacks and ambushes are to be reckoned with at all times.

Supply Installations.

Division G-4: SOSPEL. After 31 August, in TENDA. Ration distributing points: FONTAIN and SAN REMO.

Division CP:

G-3 as of 282000 August: SOSPEL.

Signed:

FRETTER - PICO
(C.G., 148th Res.Div.)

****

ANNEX TO DIVISION ORDER

Div. Hq. 28.8.44

1) Order of 27.8.44 Ia No. 1013/44

148 Res. Div. will take command in new sector on 28.8. at 1200. Division sector: West ALP sector to 5th Htn. Div. boundary as well as LIGURIAN coastal sector as far as S. LORENZO AL MARE, inclusive.

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The following units are subordinated to 148 Division:

Hq. of Mtn. Regt. "Meerapfen"
with High Mtn. Bn. #4
and Mtn. "Lehr" Bn. "Mittenwald"
as well as Regimental group Gren. Regt. 80, consisting of
Hq. 80 Gren. Regt., 2nd Bn., 80th Gren. Regt.,
with Italian mountain battery, Engr. Co., and reinforced
34th Fusilier Bn.

2) The 80th Regt'l group is to be employed on the Ligurian coastal sector from west of VENTIMIGLIA to S. LORENZO AL MARE, inclusive.

80th Regt'l group is to be relieved by 239th Res. Gren. Regt. according to the following time table:

a) Exclusive of sector LATTE - exclusive of SAN REMO; by 3rd Bn., 239 Regt.
Sector SAN REMO to S. LORENZO AL MARE, inclusive; by 2nd Bn., 239 Regt., in city of SAN REMO.
Relief is to take place on night of 2nd to 3rd of September.

b) 1st Bn., 239th Regt., will relieve parts of 148 Reserve Division and 80th Regt. during night 31 August/1 September. Sector: exclusive ROQUEBRUNE; inclusive LATTE.

****

LXXV CORPS DAY REPORT

The following captured document provides an example of an enemy staff estimate and reaction to an engagement with American troops:

LXXV Corps Day Report 272200B Aug 1944.

a) Retreat from brown to blue line under enemy fire, however, not followed up by enemy. Due to counterattack in VILLENEUVE-LOUBET we succeeded in pushing the enemy back far enough to relieve units there. Follow up troops have not yet arrived. Enemy feeling way forward to "blue" line had reached vicinity of LA GAUDE by noon. Held our positions there. Fight with "terrorists" since early morning north of GATTIERES. Under heavy mortar and heavy machine gun fire own forces had to give way to line south of GATTIERES. At 1900 enemy forces broke through on road CAGNES SUR MER - ST. LAURENT, probably tracked vehicles carrying infantry. ST. LAURENT apparently occupied by enemy. Order was given at 2130 to blow wooden bridge. Our artillery is firing on enemy forces in LA GAUDE and ST. LAURENT.
Demolitions carried out according to plan. Fords, railroad bridge, and cement bridge across the VAR destroyed by delayed action.
Naval fire on CAP FERRAT and VAR Valley. No losses or damage. Bombing by fighter-bombers of harbor and town MONTE CARLO at 1430 and 1925. No military damage or losses.
On road MOULINET - SOSPEL, 3 km. south of MOULINET, at point 685 (map 1:50,000) road blown out by "terrorists". (Crater 8 m. deep and 5 m. wide)

b) Road to ST.LAURENT - 500 meters south of GATTIERES - point 169 - point 205 - point 308 - point 289 - along road to ST. LAURENT - as far as road fork 2 km. south of St. Laurent.

g) Clear, sunny, hot.

ESTIMATE OF COMBAT EFFECTIVENESS AS OF 30 AUGUST 1944

198th Infantry Division.

305 G.R.
1st Bn.)
2nd Bn.) 200 men

308 G.R.
1st Bn.)
2nd Bn.) 200 men

326 G.R.
1st Bn. - 200
2nd Bn. - 200

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235 AT Bn - 80
235 Engr. Bn. - 300
198 Fus. Bn. - 200
235 Arty Regt. - Est. 24 pieces.

11 Panzer Division.
110 P.G.R.
1st Bn. - 250
2nd Bn. - 200

111 P.G.R.
1st Bn. - 450
2nd Bn. - 450

15 Pz. Regt. estimated 40 operational tanks.
119 Pz. Arty Regt. - Estimated 30 Arty pieces.
11 Pz. Rcn. - 350 - 400
209 Engr. Bn. - 350
61 AT Bn. - 300

338 Infantry Division.
757 G.R.
1st Bn.) Virtually destroyed
2nd Bn.)
3rd Bn. - 400* (Russian; not contacted)

NOTE: An unidentified March Bn., estimated str. 200, probably used as replacements for 757 G.R., operating under staff 757 G.R.

758 G.R.
1st Bn. - 350
2nd Bn. - 400*
3rd Bn. - 400*

NOTE: This regiment identified in North; however PW's from 3rd Co. captured by 3rd Div.

759 G.R. - Probably N. FRANCE.
1st Bn. - 400*
2nd Bn. - 400*
3rd Bn. - 400*

338 Rcn. Bn. - 350*
338 AT Co. - Virtually destroyed.
338 Engr. Bn. - 300*
338 Arty Regt. - Estimated 18-20 pieces. (NOTE: II/338 A.R. reported North)

148 Reserve Division.
239 Res. G.R.
1st Bn. - 300
2nd Bn. - 425
3rd Bn. - 375
4th Bn. - Virtually destroyed.

8 Res. G.R.
1st Bn. - 400
2nd Bn. - 400
3rd Bn. - 425
Regiment "Kossler" - Virtually destroyed.
Div. Fus. Bn. - 200
8 Res. Engr. - 400
8 Res. Arty Regt. - Est. 24 pieces.

MISC.
933 G.R. - Remnants of 1st and 2nd Bns. believed virtually destroyed in MONTELIMAR pocket.

* Not Contacted.

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189 Res. Division.
15 Res. Regt.
163rd Bn. - 300
161st Bn. - Believed virtually destroyed in MARSEILLES.
28 Res. Regt.
116 Bn. - 400
38 Bn. - 400*
15 Res. Engr. Bn. - 300*
262 AT Co. - Destroyed
28 Arty Bn. - Estimated 9 hvy pieces.

157 Reserve Division.
157 Res. Regt.
179 Bn. - 200
217 Bn. - Virtually destroyed
1 Mtn. Res. Regt.
1/98th Bn. - Believed destroyed
II/98th Bn. - 250.
99th Bn. - 400
100 Bn. - 400*
7 Res. Engr. Bn. - Destroyed
7 Res. Arty Regt. - Estimated 15-18 pieces.

* Not Contacted

90TH PANZER GRENADIER DIVISION

31 August 1944

History:

Formed as the "Afrika Division z.b.V." in the spring of 1941, this division was first identified in NORTH AFRICA in the fall of 1941. Shortly thereafter, the division was renamed "90th Light Division". Early in 1943, the division participated in the Tunisian campaign as the "90th Light Africa Division" and was virtually destroyed. It was reconstituted in SARDINIA from remanants of the old 90th, from the 853 GR (mot), from Assault Brigade XI and from other garrison units and was named "Division Sardinien". It was then evacuated to CORSICA. From there, after the French invasion of the island, it was withdrawn to the VENICE area, ITALY. Late in the fall 1943, this division was committed against the British 8th Army. It remained in line, with one short rest, almost continuously until late February when it was withdrawn for rest and refit. From this date until the Allied push in May, it was used as Army reserve. At the start of the Allied offensive, the division was rushed to the Southern Front and suffered considerable losses in the general withdrawal Northward. Late in July, the division was in reserve in the vicinity of PRATO. Various reports indicated the movement of elements of the division in the direction of the Italian-French border about 16 August 1944. FFI reported elements 90 P.G.D. vicinity LARCHE N-3265, 29th August 1944.

Composition (last known):

UNIT	COMMANDING OFFICER	APO
90th P.G. Div.	Maj. Gen. BAADE	58600
361 P.G.R.	Col. HEINMANN	29334
1st Bn.	Capt. EMMICH	31524
2nd Bn.	Capt. SCHLOTTAU	56260
3rd Bn.	Capt. MONSBACH	59518
200 P.G.R.	Col. v. BEHR	
1st Bn.	Capt. HESS	58277
2nd Bn.	1st Lt. JOERGEL	57155
3rd Bn.	Capt. HEYDA	58291
190 Recn. Bn.		02942
190 Arty Regt.	Lt. Col. KISCHKE	
1st Bn.	Capt. WALKER	48065
2nd Bn.		
3rd Bn.		
190 Aslt. Gun Bn.	Maj. ZUETHER	56906
190 Sig. Bn.		
190 AT Bn.	Lt. Col. JAKOB	38192
190 Engr. Bn.	Capt. BARANECK	58216
190 Heavy Gun Co.	1st Lt. FLOREN	00986

* Not Contacted

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Divisional Insignia:

Old: Map of SARDINIA pierced by a sword.
New: Outline of map of SARDINIA with superimposed clenched fist.

History: 5th Mountain Division

Formed in autumn of 1940. First identified in GREECE where it was heavily engaged during the BALKAN campaign. Subsequently took part in the airborne attack on CRETE. Remained in AEGEAN area during 1941. Transferred to LENINGRAD sector early in 1942 and to ITALY late in 1943 where it fought almost continuously on the Adriatic side against the British 8th Army. It remained in line almost continously in the sector until the Allied push Northward. During the middle of July this division was reported taking over the sector of the 114th Light Division E. of AREZZO and late in August the division was reported relieved by the 278th I.D. on the FOGLIA RIVER line. A captured document reveals the new responsibility of this division to be the sector N. of the 148th I.D.

Composition (last known):

UNIT	COMMANDING OFFICER	APO
5th Mtn Div	Col. SCHRANCK	00074
100 Mtn Regt	Maj. ERNST	
1st Bn	Capt. SINGER or TOEMMES	24871
2nd Bn	1st Lt. ENGST	03474
3rd Bn	Capt. BACHMEIER	
85th Mtn Regt		
1st Bn	Maj. TAILSEN	
2nd Bn		
3rd Bn	Maj NEUBAUER	04037
4th Bn	Capt. UNGETHUEM	
95th Engr Bn	Maj. KLAGER	06004
95th Sig. Bn	Maj. SCHLIESS	
85th Recn Bn	Capt. SCHAUMBURG	
85th AT Bn	Capt. KLEIN	
95th FLD		

Divisional Insignia:

Old: Chamois on mountain peak
New: Oval or triangular design, with yellow border, white or gray field and three vertical black stripes.

WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2

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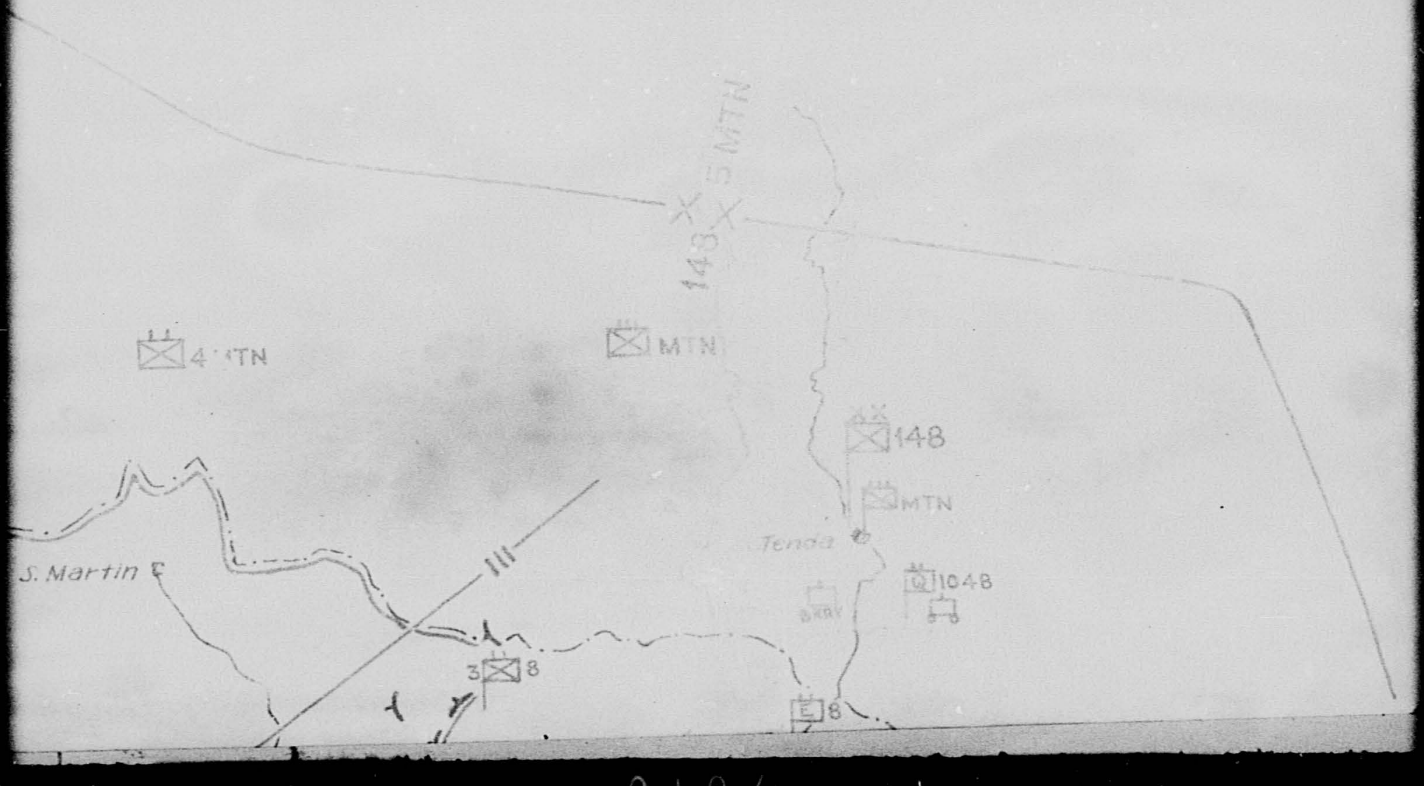
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ANNEX NO 2
TO ACCOMPANY
INFORMATION BULLETIN # 11

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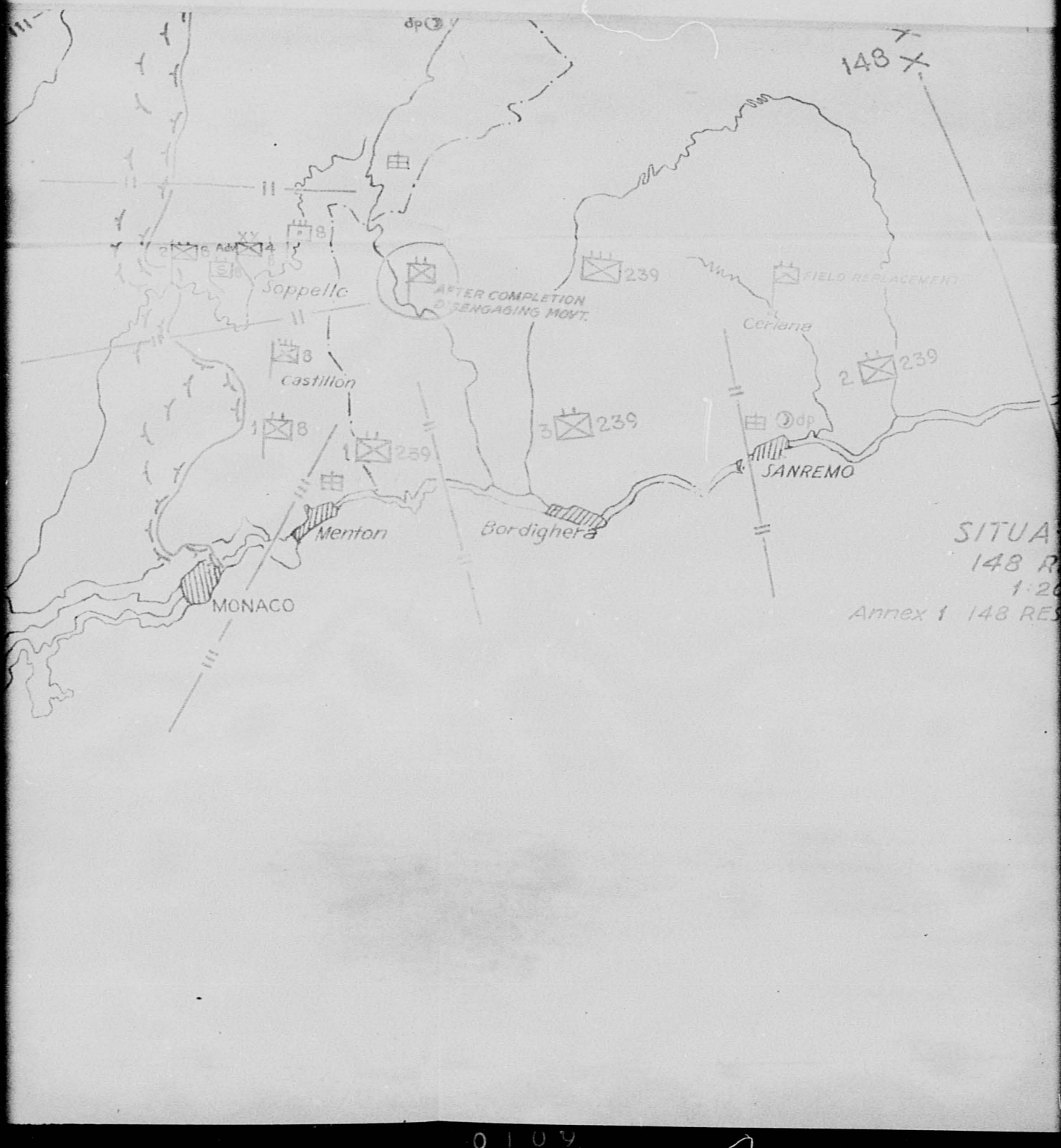


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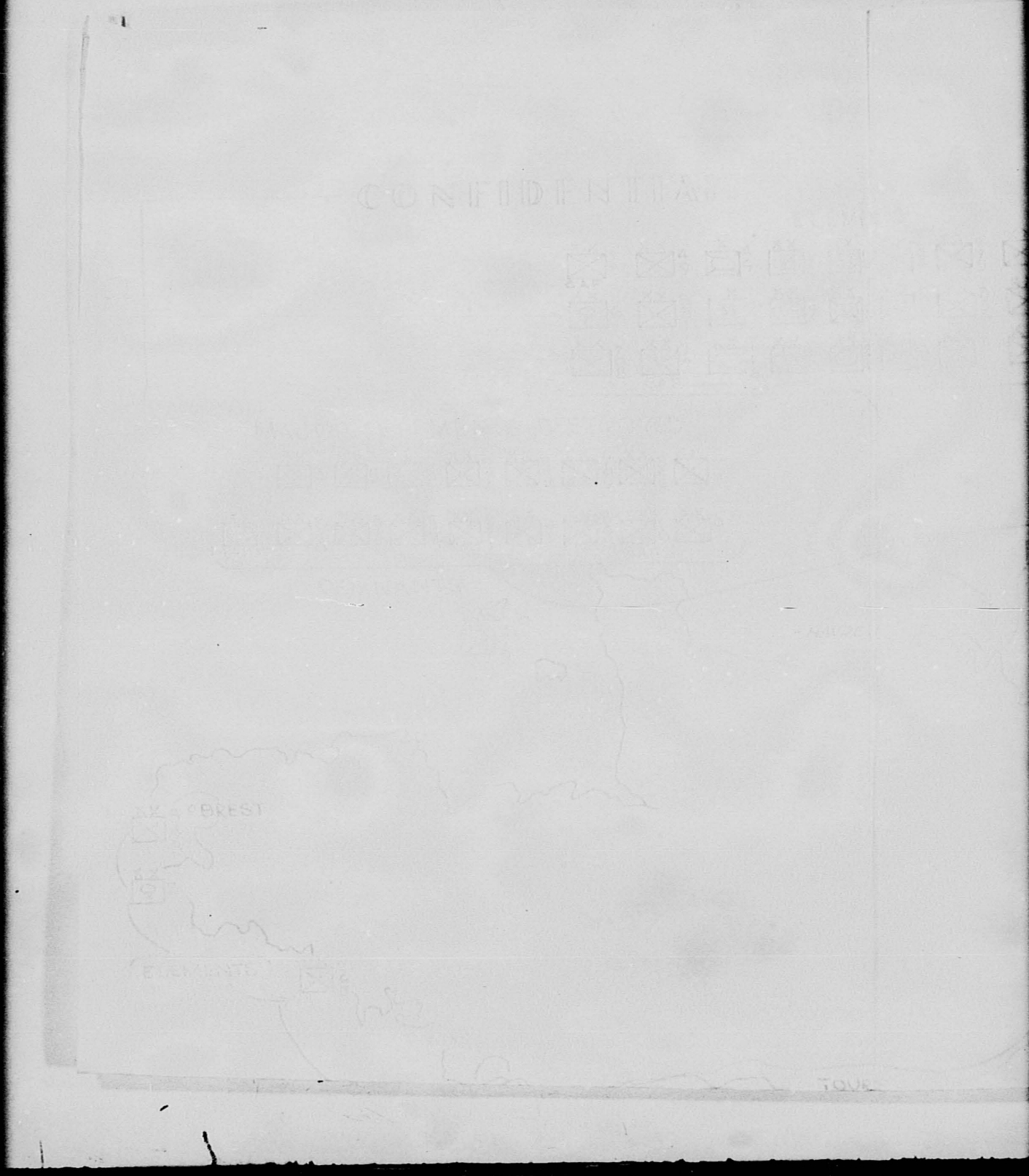
SITUATION MAP
148 RES DIV
1:200,000
Annex 1 148 RES DIV Operations Order 27 Aug 44

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VII TAC
J. K. Wisener
Lt. Col. Adams
Maj Smith

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HEADQUARTERS SEVENTH ARMY
Office of the A. C. of S., G-2
APO 758 US ARMY

Copy No. 52

Ref. No. X-115

G-2 REPORT

From: 150800B Sept 44
To : 160800B Sept 44

Hq. Seventh Army
In the Field
161200B September 1944

No. 32.

Map: GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and forward elements - Annex No. 1, Overlay.
   b. Defensive Organization.
      (1) TAC/R on 15 Sept reported observing AT ditches between BREISACH (V-8857) and the area S of FREIBURG. A large trench two to five miles long with fresh dirt on the sides was observed zigzagging N and S approximately 12 miles N of BELFORT.
   c. Units in Contact.
      (1) Identifications.
          11th Pz. Div.
          110th P G. Regt.
          2nd Bn. - vic P-1881.
          16th Inf. Div.
          Elements 1316th AT Bn.) Identified in VESOUL area.
          Elements 1316th Engr. Bn.) Part of Battle Group REINHARD. (Battle Group subsequently renamed KALUZA, BOESSOV. Name of present commander unknown.)
          34th Inf. Div.
          34th Rcn. Bn. - at MT. GENEVRE (K-4802) by deserters.
          338th Inf. Div.
          759th Inf. Regt.) - identified LURE - LUXEUIL sector.
          159th Res. Div.
          36th Res. Bn.
          1st Flieger Ausbildungs Div.
          92nd Flieger (Wonka) Regt. - vic P-1685.
          Battle Group BRODOWSKI.
          615th Ost Bn.) identified at GENEVRIERES
          Elements 1708th Arty Regt.) (J-4507) on 14 Sept.
          602nd Mobile Bn.) - vic SAULX DE VESOUL (J-9607).
          608th Mobile Bn.)

      (2) Organization and Strength.
          (a) Composition of Battle Group Gen. Lt. (Maj. Gen.) BRODOWSKI: 2 Bn 221 GR, 4 Bn 200 Sicherungs Regt, 615 Ost Bn, 354 Reserve Bn, elements 1316 AR, elements 1198 Arty Bn, elements 95 AA Bn, elements 157 AA Bn.
          (b) Gen. Maj. REINHARD.
          PW's state that the general was killed ten days ago on a mine.
          (c) Order of Battle, 19th Army.
          A captured map dated 13 September revealed the following:
          CP 19th Army GERARDMER (V-3641).
          CP LXVI Res. Corps BAINS-LES-BAINS (J-9341) with following under command:
          21st Pz Div - CP at FAUCONCOURT (V-1175).
          111th Pz Brig - CP at RAMBERVILLERS (V-1872).
          16th Inf Div - CP at MIRECOURT (Z-8168).

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112th Pz Brig - CP at DARNEY (Z-7444).
Battle Group OTTENBACHER, shown with div. sign - CP at BOURBONNE-LES-BAINS (J-5433).

CP LXIV Res. Corps LUXEUIL (K-0420) with following under command:
Battle Group BRODOWSKI, shown with brigade sign - CP at BELMONT (J-4107).
Battle Group TAEGLICHSBECK, shown with brigade sign - CP at JUSSEY (J-6720).
716th Inf Div - CP at ABONCOURT (J-7415).
Battle Group SCHWERIN (189th Res Div) - CP at MEURCOURT (J-9215).
Battle Group KALOZA (replacing the dead Gen. REINHARD) - CP at VESOUL (O-8798).

CP IV SS Corps LURE (K-1307) with following under command:
338th Inf Div - CP at ANJEANS et VELOTTES (K-0505).
159th Res Div - CP at LES-AYNANS (P-0999).
198th Inf Div - CP at ARPENANS (P-0598).
Battle Group DEGENER, shown with brigade sign - CP at MIGNAFANS (P-1792).

CP LXXXV Corps BELFORT with following under command:
11th Pz Div - CP at MORVILLARS (A-4083).
Battle Group VON OPPEN, shown with brigade sign - CP at BELFORT.

2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.

The enemy continued his pivoting manouver during the period, with resistance opposite the 3rd and 36th U.S. Divs remaining scattered and light as he continued to withdraw his flank towards the VOSGES mountains. West of MONTBELLIARD (P-3688) and north of L'ISLE (P-1981), where the enemy has offered stubborn resistance for the past several days, his defense appeared slightly more moderate. South of the DOUBS River, in the French I Corps sector, increased enemy activity was noted. A counterattack, with tank support, was made towards AUTECHAUX (P-3576), and considerable arty fire was received. The French reported the enemy reinforcing his positions and digging in in this area. In the ALPINE pass sector, the enemy evacuated MOHAIE (K-4031) and withdrew 10 kms to the Northeast. West of the SAONE, the French reported JUSSEY (J-6720) strongly held and battle contact by their rcn elements at MONTCHARVOT (J-5428). No important M/T movement were observed.

b. Operations of Component Elements.

(1) Antiaircraft Artillery.

151245B: Light flak K-0429 and V-9512.

(2) Armored Forces.

SHAEF reports state that rail movements up to 3 Sept. show that quite a few tank units have been arriving recently from GERMANY in the EPINAL (V-0453) area. SHAEF reports that the tanks may number 150 or more but that no division is reported and that they probably belong to Panzer Brigades.

(3) Artillery.

(a) GRAMONT (P-1487) was shelled intermittently during the afternoon of the 15th.
(b) Troops of the 3rd Div. received considerable artillery fire at K-0311 and K-0604.
(c) Considerable arty fire fell south of the DOUBS river in the vic VERMONDES (P-3375), PORT de ROIDS (P-7534), BLAMONT (A-3265) and PIERREFONTAINE (A-3264).

(4) Engineers.

(a) T/C/R on 15 Sept. observed pontoons for bridges on the river bank near BREISACH (V-8757) and NEUERBURG (V-8714).
(b) Agents report that preparations are being made to mine the bridges and power stations in the BELFORT area.
(c) The tunnel at ROCHE du DIABLE (V-4540) was reported destroyed by the FFI.

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(5) Infantry.

(a) VI Corps.

During the morning VI Corps advances along the main route LURE (K-1206) and LUXEUIL (K-0220) continued against only light resistance from small arms. Opposite the high ground west of MONTBELLARD, U.S. forces made slight advances in the vic VILLERSEXEL (P-0891) where they were apparently not in contact with enemy positions. FAVERNAY (J-8214) in the 36th Div. area was entered without resistance. Along the S flank of the enemy withdrawal resistance with small arms and mortars continued especially S of CONFLANS (J-9020).

During the afternoon enemy resistance opposite the 36th Div. and the 3rd Div. remained light with the exception of BAUDONCOURT (K-0017), which was reported still held by the enemy. Opposite the 45th Div. light contact was maintained with resistance reported moderating slightly.

(b) French Army "B".

I Corps.

In the Alpine pass sector the enemy was reported to be drawing back toward BRIANCON (10 kms. NE of MODANE (K-4031), after evacuating MODANE and FORT DE SAPPEY (K-3731). The tunnel at MT CENIS was reported to be blown.

South of MONTBELLARD (P-3688) considerable enemy artillery fell in the area VERMONDES (P-3375), PORT DE ROIDE (P-7534), BLAMONT (A-3265) and PIERREFONTAINE (A-3264). One enemy counterattack with tank support was made in the direction of AUTECHAUX (P-3576) but was unsuccessful. The French reported that the enemy is reinforcing his advance positions, organizing terrain, and digging in.

II Corps.

1st Div. Blindee reported JUSSEY (J-6720) strongly held by the Germans during the morning and that they (the enemy) were using it as an assembly area for withdrawal. Seven kms, S of BOURBONNE (J-5434) ren elements reported making patrol contact at MONTCHARVOT (J-5428).

During the afternoon French ren elements pushed from LANGRES (J-2423) to CHAUMONT (Z-0749).

3. MISCELLANEOUS.

a. Motor Movements.

Clouds and fog over enemy area restricted aerial operations. Three TAC/R missions with fair visibility reported only scattered traffic. The largest report was twenty plus M/T moving both ways BELFORT to MULHOUSE, and 9 M/T moving northeast from BELFORT at about 1800B.

At 1230B, 3 large tanks were observed moving south from EPINAL. At 1745B, 2 tanks and 6 M/T were moving southeast V-0756 to V-1450, 6 M/T northeast from V-1549, and 5 M/T northeast V-1446. All this scattered movement was away from EPINAL and may reflect a local relief or shifting of forces in this area.

Despite air attack enemy continues heavy rail movement. The two fighter bomber missions in the area with good visibility each found moving train targets. One train towing guns indicated possible further build up of VOSGE mountain defenses. Fighter bombers at 1755B strafed a train with eight box cars and seven flat cars containing four heavy howitzers at V-9077. Locomotive was claimed destroyed. At 1600B fighter bombers strafed a locomotive and 15 boxcars moving north at V-0153 and a locomotive and 15 passenger cars, moving northwest at W-0549 claiming both locomotive destroyed.

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b. Weather Forecast.

17th September: Cloudy in morning clearing by 1000B with scattered showers in VOSGES mountains mid-afternoon. Clear at night; cooler. Visibility will be 6/8 miles during dawn improving to 20 miles by 1000B. Wind Northwesterly 12/15 m.p.h.

18th September: Increasing cloudiness followed by rain late afternoon. Visibility unrestricted except fog in river valleys until 0900B. Wind shifting Southwest; warmer.

c. PW's Taken.

PW's taken by Seventh Army as of 160800B total an estimated 83,000.

4. ENEMY CAPABILITIES.

See Estimate #2 dated 14 September 1944.

William W. Quinn

WILLIAM W. QUINN
Colonel, G. S. C.,
A. C. of S., G-2.

Encl: Annex No. 1, Overlay.

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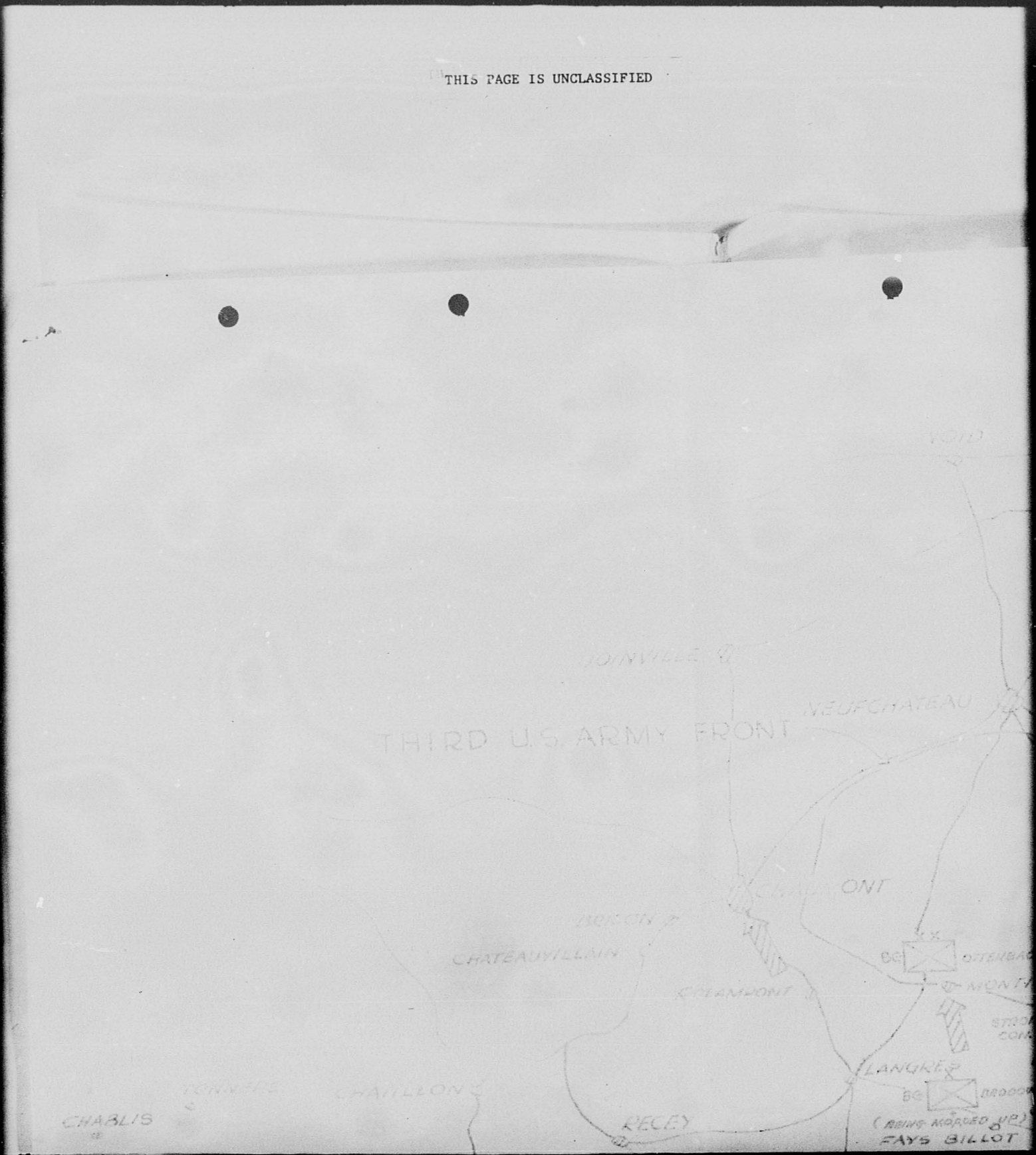
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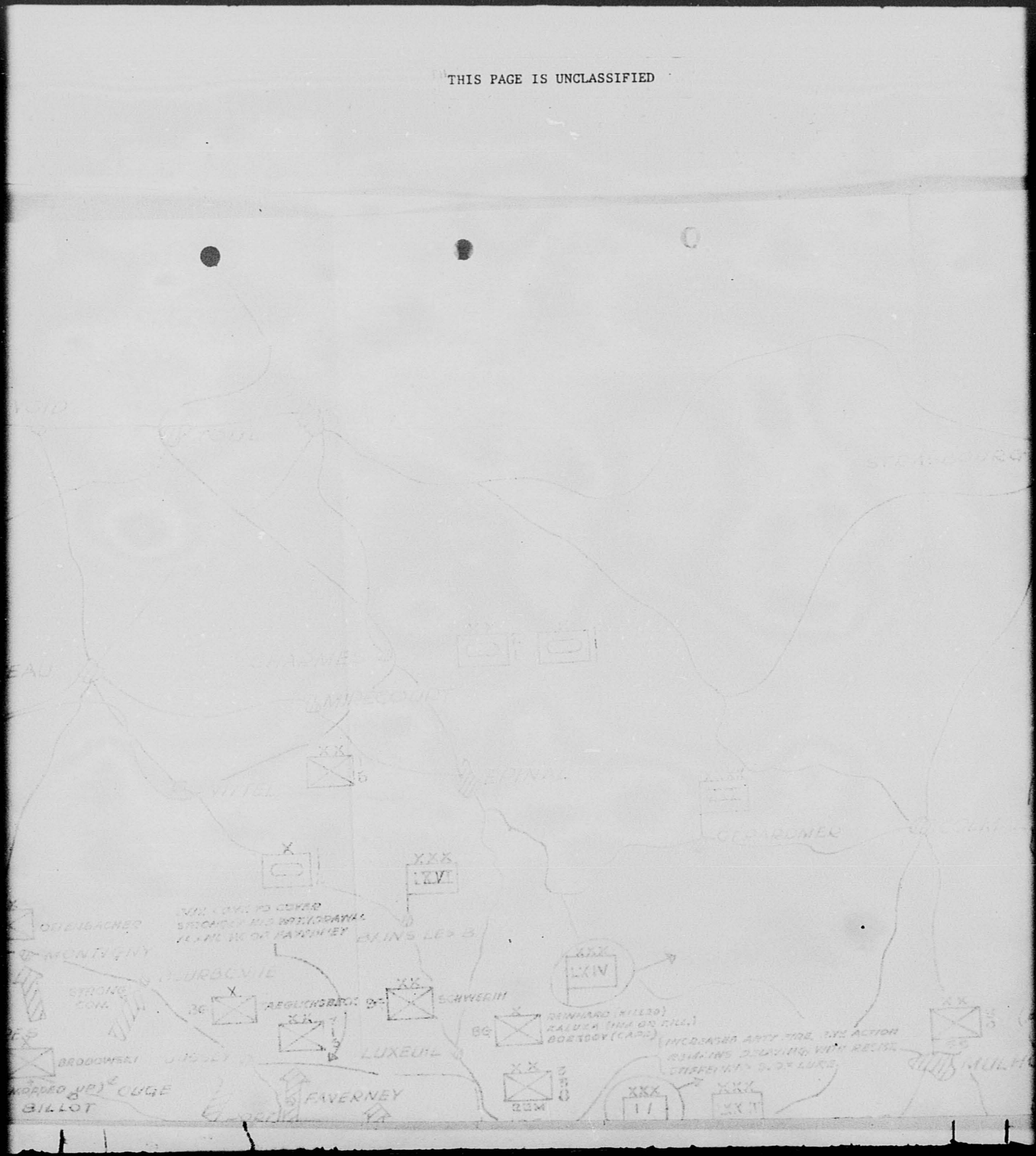


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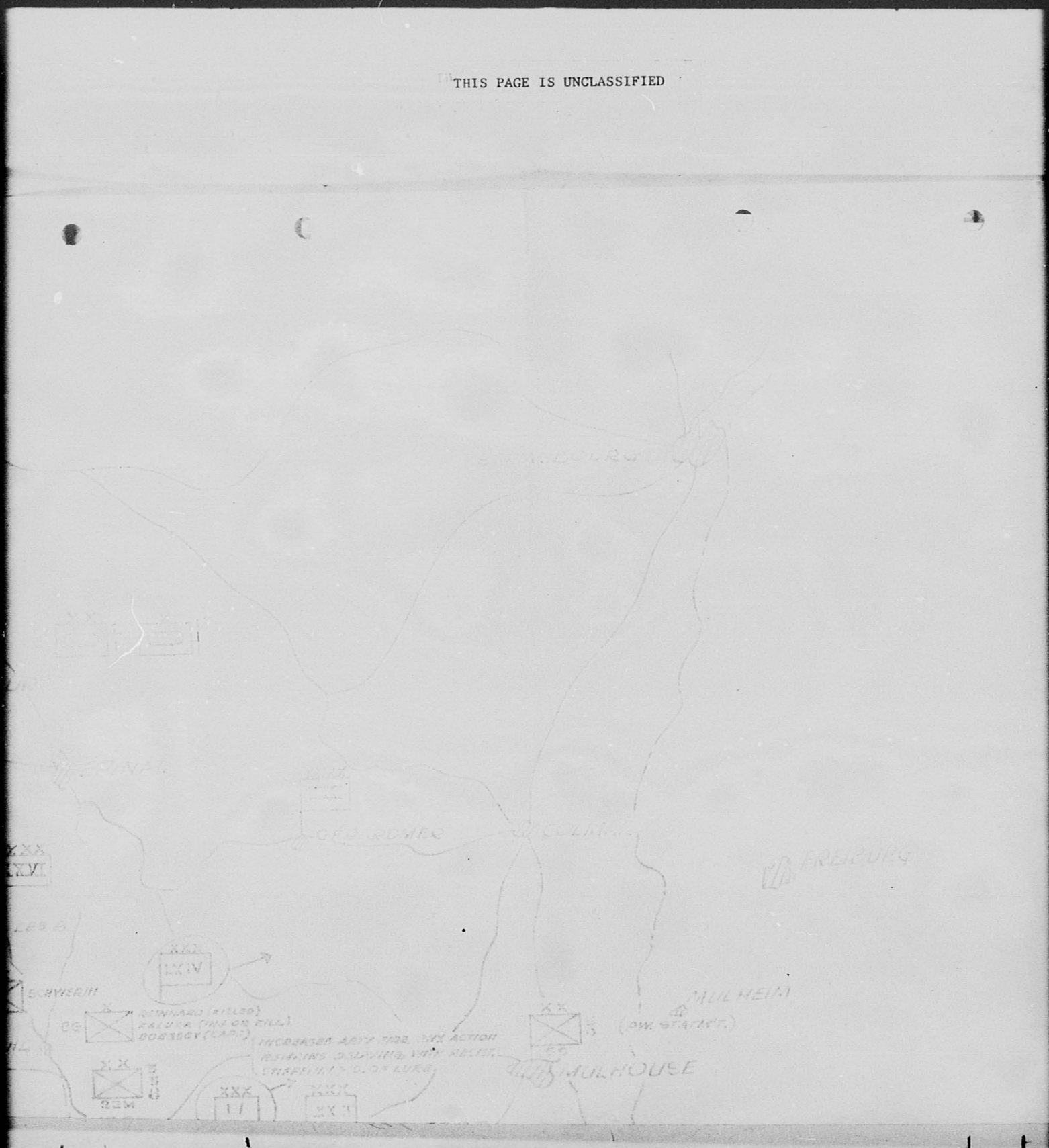
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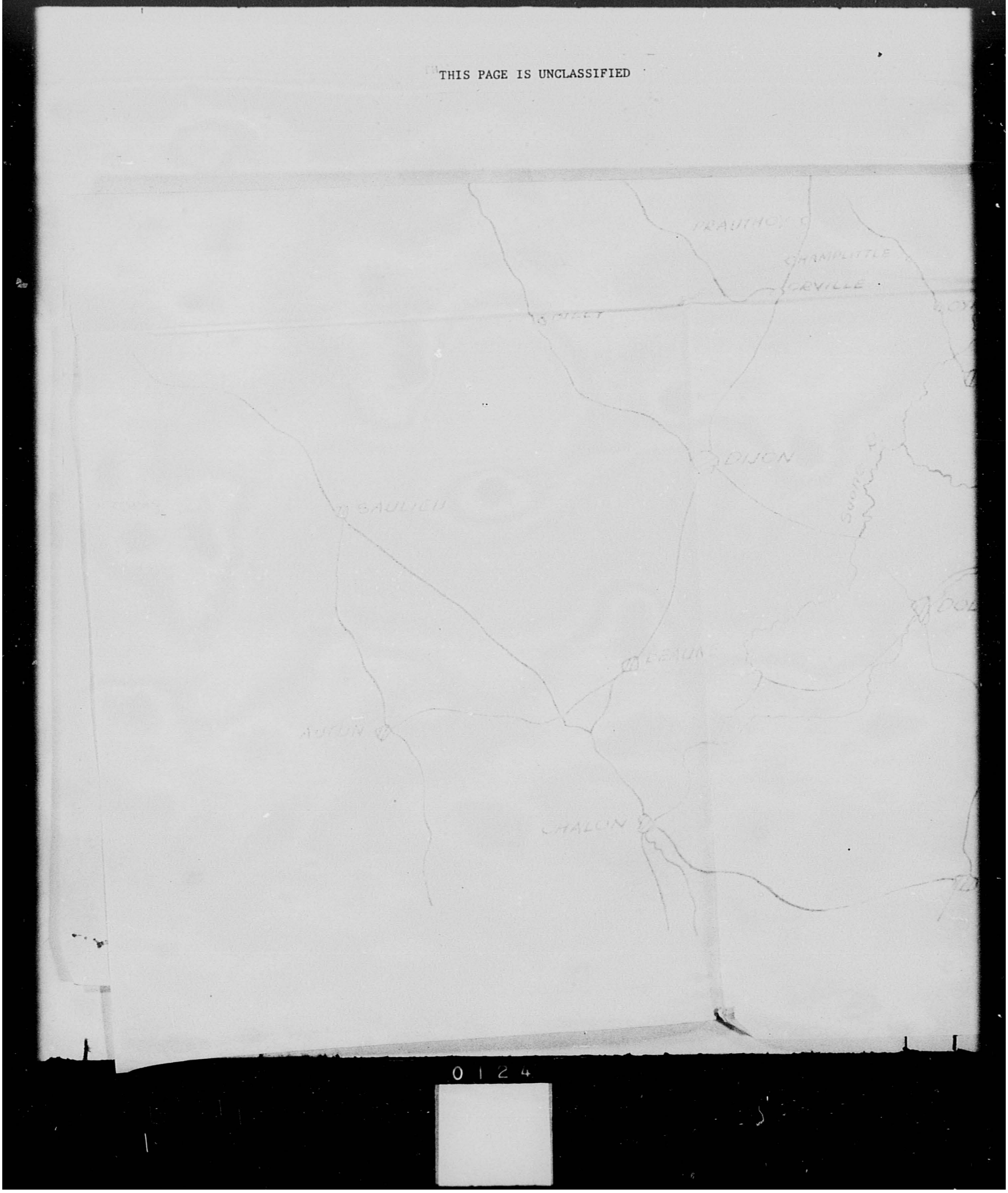
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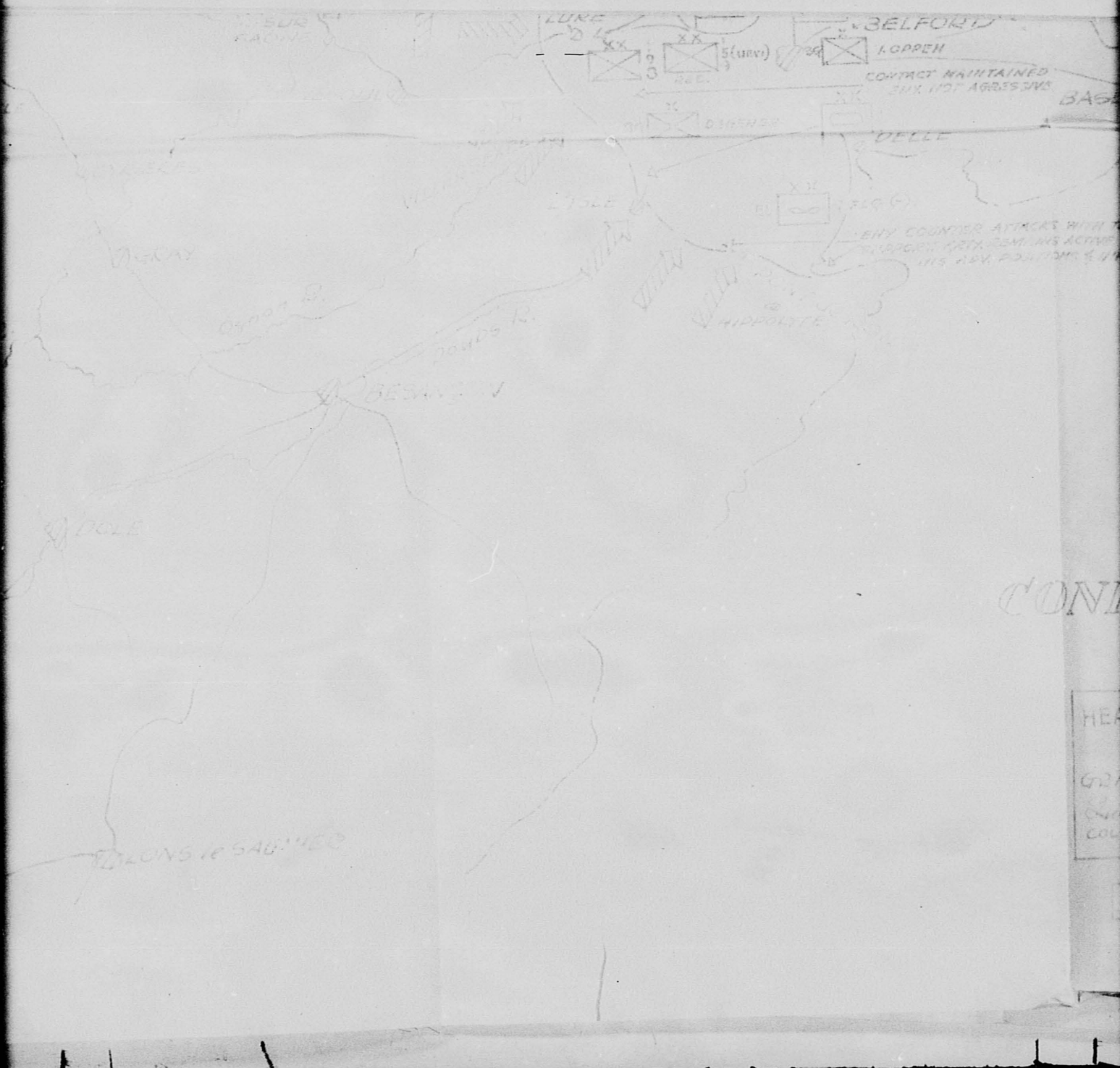


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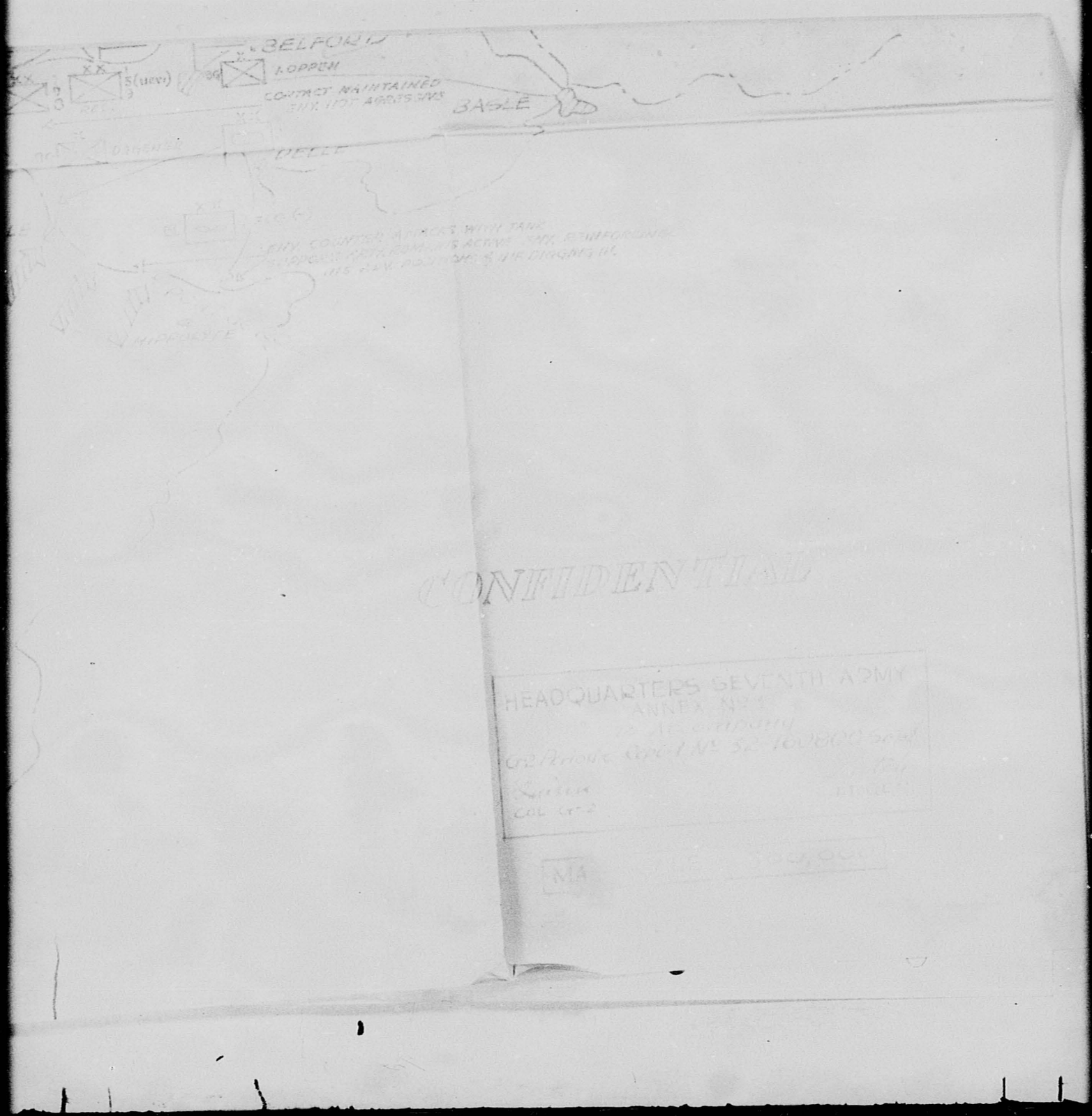
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C O N F I D E N T I A L

Capt Auble

HEADQUARTERS SEVENTH ARMY
Office of the A. C. of S., G-2
APO 758 US ARMY

Copy No. 98

Ref. No. X-109 G-2 REPORT

From: 140800B Sept 44
To : 150800B Sept 44

Hq. Seventh Army
In the Field
151200B September 1944

No. 31.

Map: GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and forward elements - Annex No. 1, Overlay.
   b. Defensive Organization.
      (1) Captured documents indicate that the CP of the 16th Inf. Div. is now at DOMPAIRE (Z-8759) and that the CP of the three battle groups under the Div. are as follows:
          HARMONVILLE (Z-4465)
          ST. REMIMONT (Z-6362)
          MATTAINCOURT (Z-8165)
      (2) The headquarters of 11th Pz. Div. is reported to be in the vic of MONTBELLIARD (P-3688).
   c. Units in Contact.
      (1) Identifications.
          11th Pz. Div.
              110th P.G. Regt.
                  2nd Bn. - identified NE of VILLERSEXEL (P-0892).
          Battle Group Ottenbacher)
          Elements 54th Res. Bn.) vic LANGRES (J-2523)
          354th Res. Bn.)
          472nd Res. Bn.)
          Menke Regt. - identified vic P-1407.
          600th Mobile Bn.) vic SAULX DE VESOUL (J-9607)
          602nd Mobile Bn.)
          1000th Rcn. Bn. (Mtz) - identified vic BONNAL (P-0386).
      (2) Organization and Strength.
          (a) Degener Battle Group.
              Commanding Officer: Gen. DEGENER.
              Captured documents reveal that this unit controls the following organizations:
                  634th Sicherungs Regt.
                  Regiment Junge
                  Elements 74th Sicherungs Brigade
                  3rd Bn. of the 194th Sicherungs Regt.
                  1007th Landesschutzen Bn.
                  1021st Sicherungs Regt.
          (b) Flak Unit FETT.
              Captured documents state that on 10 Sept. this unit was responsible for the area BONNAL (P-0386) - OIGNON (P-0588) - FALLON (P-1286).
          (c) Battle Group REINHARD.
              PW's stated that component regiments "NORD" and "SUED" were organized at the end of Aug. 44 from the 56th Sicherungs Regiment and from naval units atationed at NANTES.
          (d) MENKE Regt.
              PW stated that the Menke Regt. was organized in BELFORT from the 92nd Flieger Trng. Regt., and the 303rd G.A.F. Sig. Regt.
          (e) 1000th Rcn. Bn.
              PW's stated that this Bn., the 1000th Sicherungs Regt. (mtz) and the 1010th Sicherungs Regt. (which had been destroyed) are part of a Sicherungs Brigade commanded by a Gen. JESSER.

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(f) 16th Inf. Div.

A PW states that the 54th, 472nd and 354th Res. Bns. are now the 1st, 2nd and 3rd Bns. of the 213th Res. Inf. Regt.

2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.

The situation showed little change in pattern during the period. Opposite the 36th and 3rd Divisions the enemy continued to withdraw towards the VOSGES mountains leaving small delaying forces in his wake. He continued to pivot on his anchor, the high ground west of MONTBELIARD (P-3688). However, in this area he withdrew slightly in the vic ACCOLANS (P-1685) - GRAMMONT (P-1487) in the face of U.S. pressure. South of MONTBELIARD the situation remained static. Enemy tank activity was encountered for the first time on the left flank of VI Corps in the area Southwest of LUXEUIL (K-0221). In the Armiee "B" sector Ron to CHATILLON (H-6720) and MONTBARD (N-5094) produced no contact. Observation of M/T and rail movements was restricted by weather.

b. Operations of Component Elements.

(1) Armored Forces.

(a) A group of nine enemy tanks were seen during the morning in the vic of ACCOLANS (P-1685). U.S. artillery destroyed two tanks.

(b) During the afternoon enemy tank activity was encountered on the VI Corps left flank SW of LUXEUIL (K-0221).

(c) Agents reported that approx 30 tanks were moving toward REMIREMONT (K-1743).

(2) Infantry.

(a) French Army "B".

I Corps.

During the morning enemy positions in the vic of MOURCEY (P-3777) were reported to be held in strength.

II Corps.

The citadel at LANGRES (J-2422) surrendered at 131900B. During the afternoon an enemy convoy evacuating troops from the GRANDCHAMP (J-3307) area was ambushed and destroyed S of FAYL BILLOT (J-4415) by 1st Div. Blindee. 200 Germans were killed, 160 were made prisoners, all vehicles were destroyed and 4 - 88mm guns were captured. 1st D.M.I. sent reconnaissance NW on the DIJON - CHATILLON (H-6720) and DIJON - MONTBARD (N-5094) roads with no contact reported.

(b) VI Corps.

In the 36th Div. sector during the morning U.S. troops occupied FLEURY (J-8112) against only light resistance, but was subsequently forced to withdraw. Elsewhere on their front only moderate resistance to advances NW of VESOUL was encountered. Several concentrations of artillery fire were received at FLAGY (J-8907).

In the 3rd Div. sector the enemy offered stiff opposition to U.S. forces attacking BOREY (P-0296). Moderate artillery fire fell in the vic of ESPREIS (P-0490) and on a hill at P-0196.

In the 45th Div. sector enemy infantry were reported occupying almost a continuous line from L'ISLE to MARAST (P-0492) to K-0000 with salient at VILLERSEXEL (P-0791). Enemy resistance continued stubborn especially on the high ground W of MONTBELIARD (P-3689) where dug-in infantry supported by AT guns, artillery and a few tanks, were encountered. Patrols which entered L'ISLE reported no contact with the enemy in town.

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During the afternoon, the 36th Div. continued their drive to the N with only minor resistance N of FAVERNAY (J-8215), and in the vic of(K-0214). Enemy resistance moderated in the 3rd Div. sector and light scattered resistance was offered by the enemy along the front during the afternoon. In the 45th Div. sector the enemy appeared to be withdrawing to the N and NE in the vic ACCOLANS (P-1685) and GRANGET (P-1487) covering his withdrawal with artillery and tank activity.

(c) 1st A/B Task Force.

The enemy fiercely resisted U.S. attacks on his TETE DE LA 'AVIA positions. 1st S.S.F. patrols reported no contact with the enemy but indications of enemy movement along the SOSPEL (S-7498) - CASTILLON (S-7493) road.

3. MISCELLANEOUS.

a. Motor Movements.

Unserviceable A/D caused all TAC/R missions to be cancelled for the day.

b. Weather Forecast.

16 September: Cloudy, wind from the W 5 MPH with rain in afternoon. Visibility 8/10 miles until 1500B, then after restricted to 2/3 miles due to rain. Wind from SW in morning, NW in afternoon. Cooler in evening.

17 September: Cloudy and cool with wind from N 10 MPH and visibility 8/10 miles.

4. ENEMY CAPABILITIES.

No Change.

William W. Quinn

WILLIAM W. QUINN
Colonel, G. S. C., AC
A. C. of S., G-2.

Encl: Annex No. 1, Overlay.

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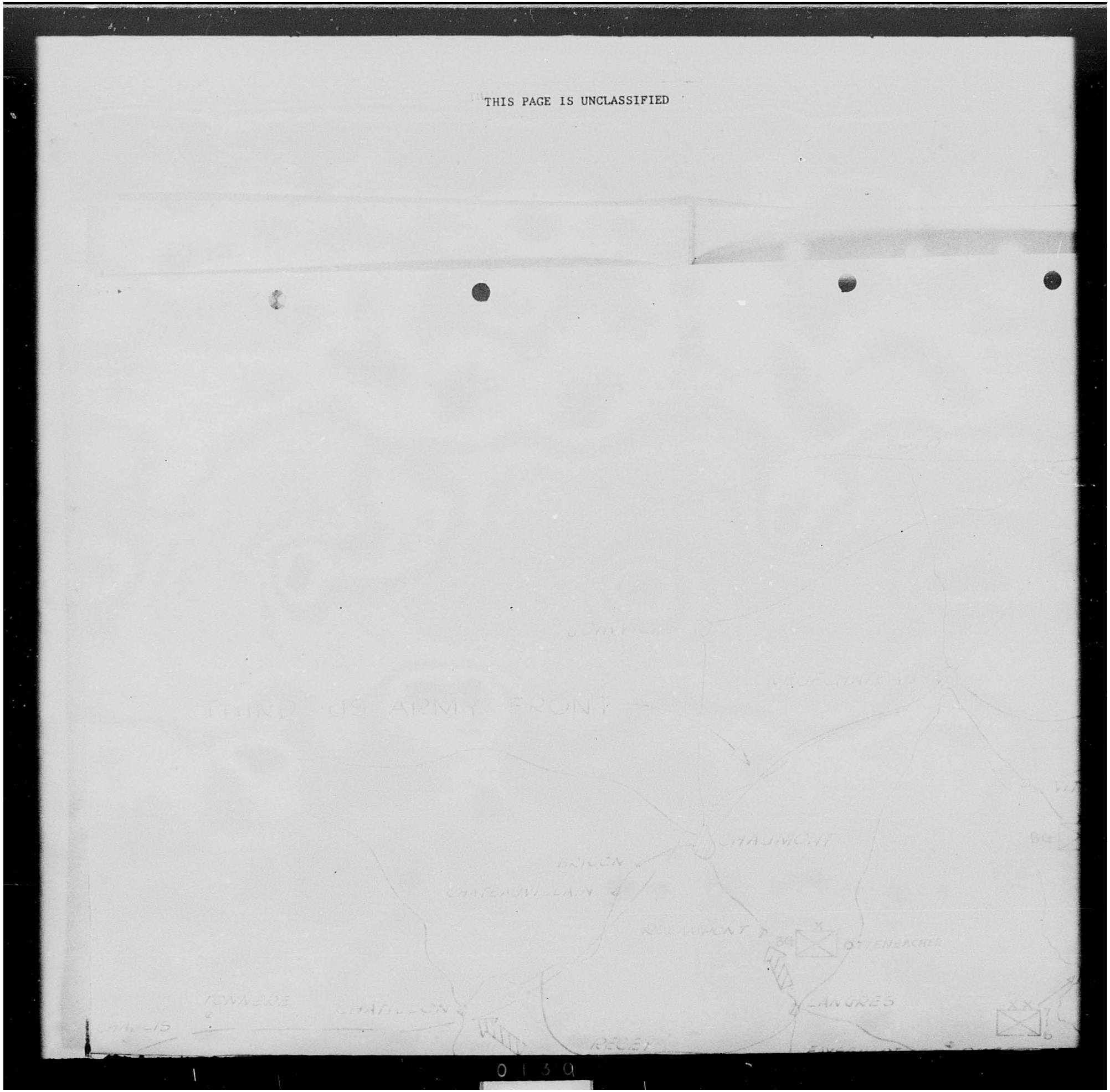
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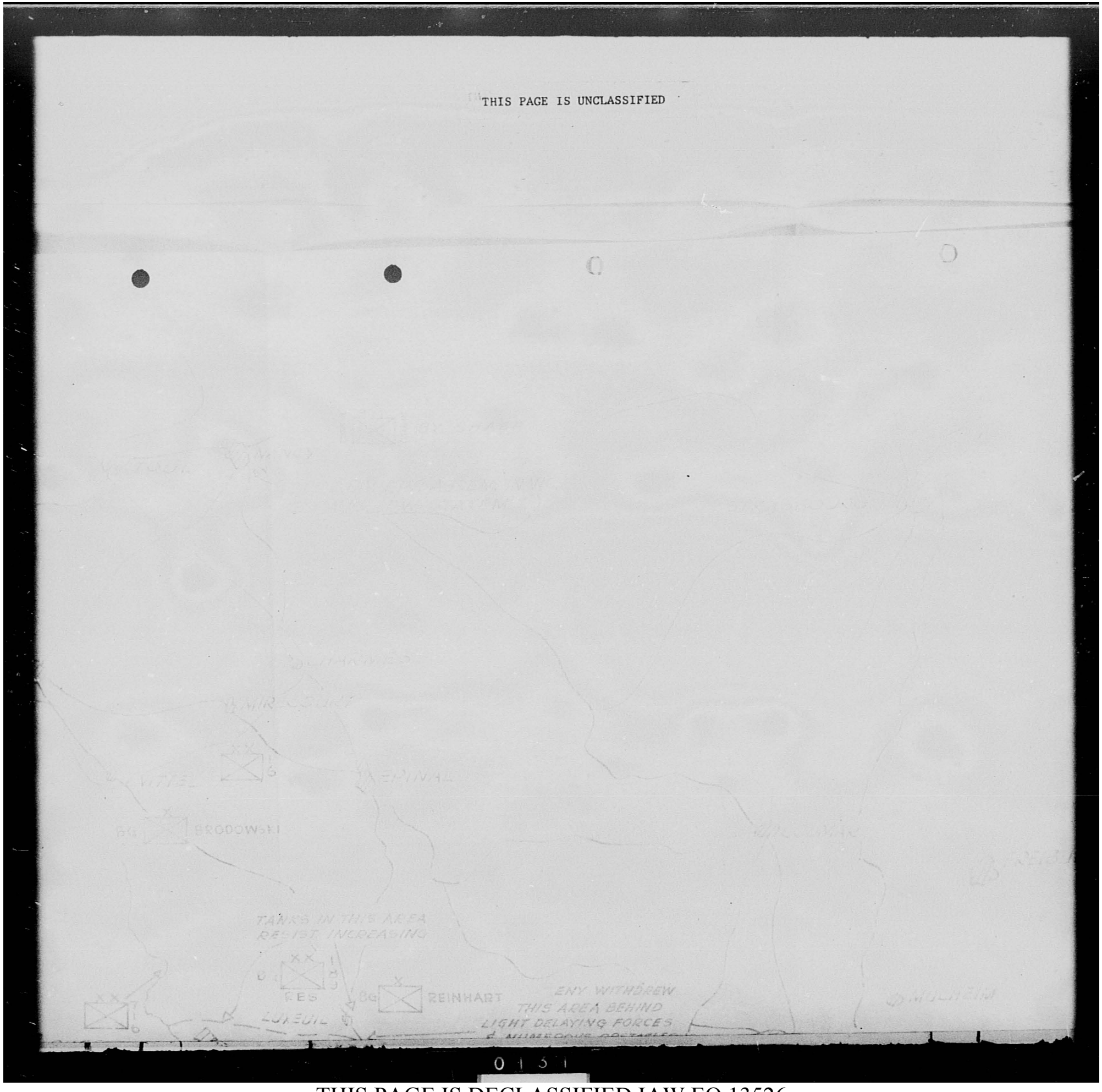
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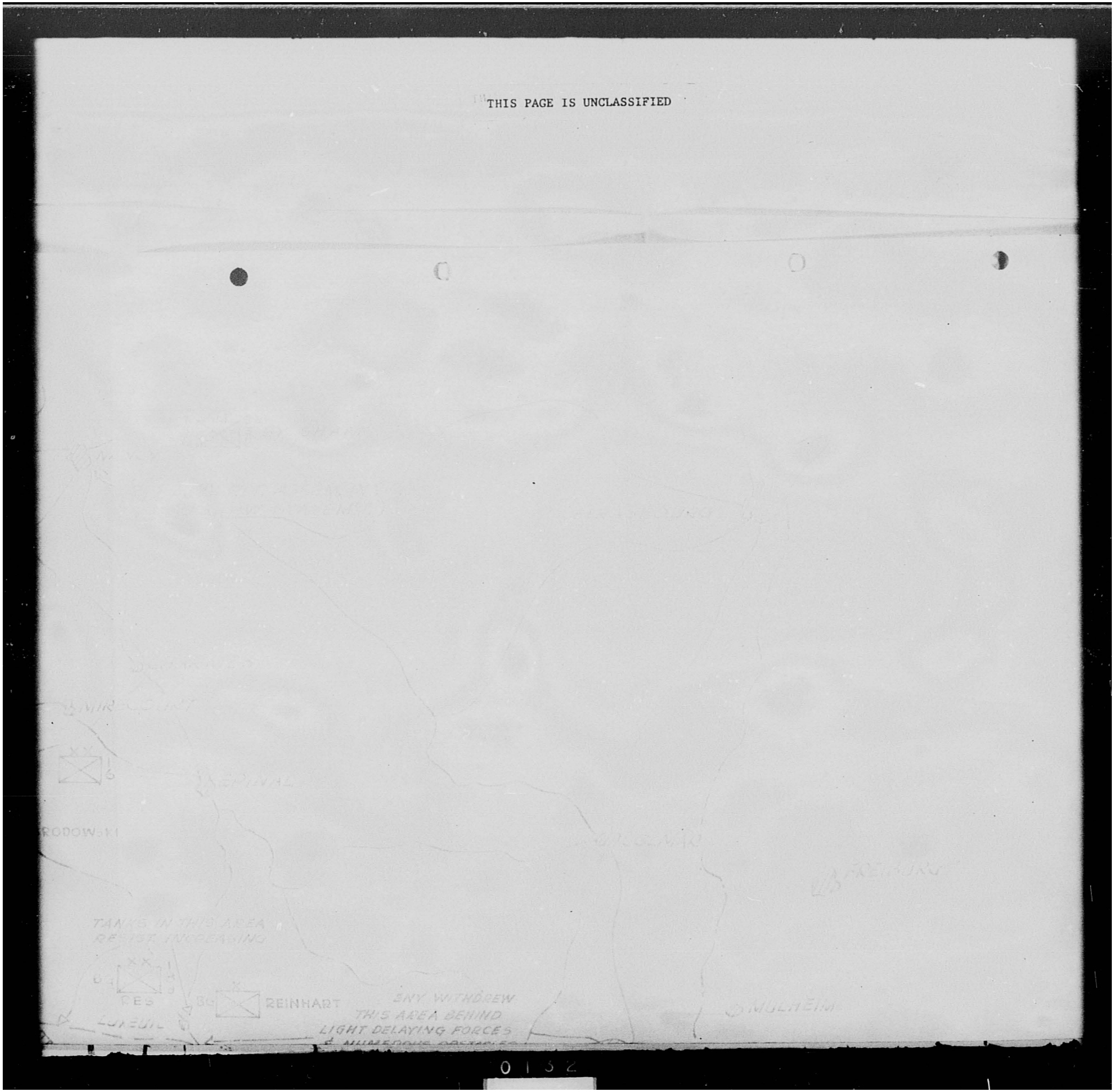
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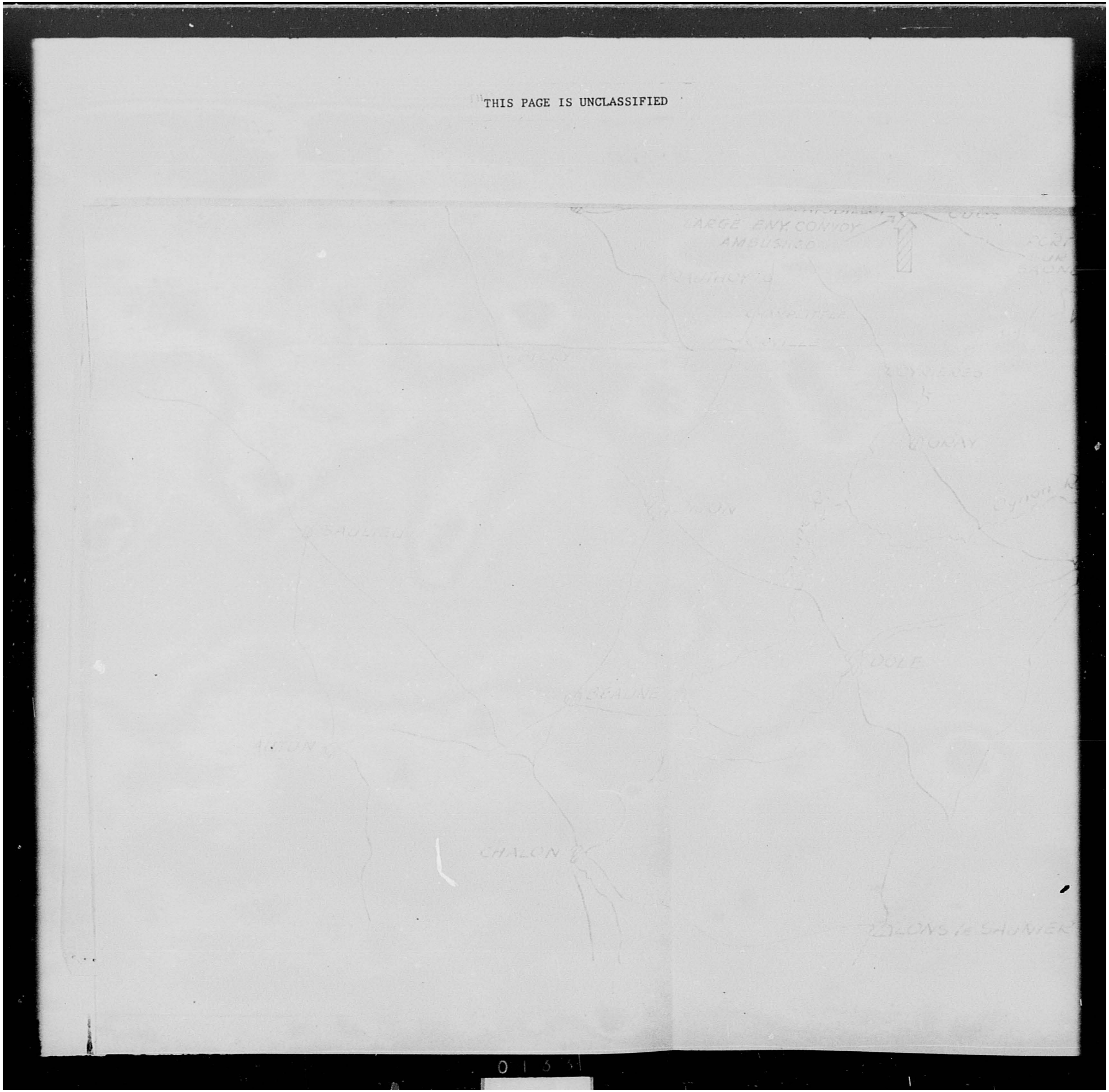
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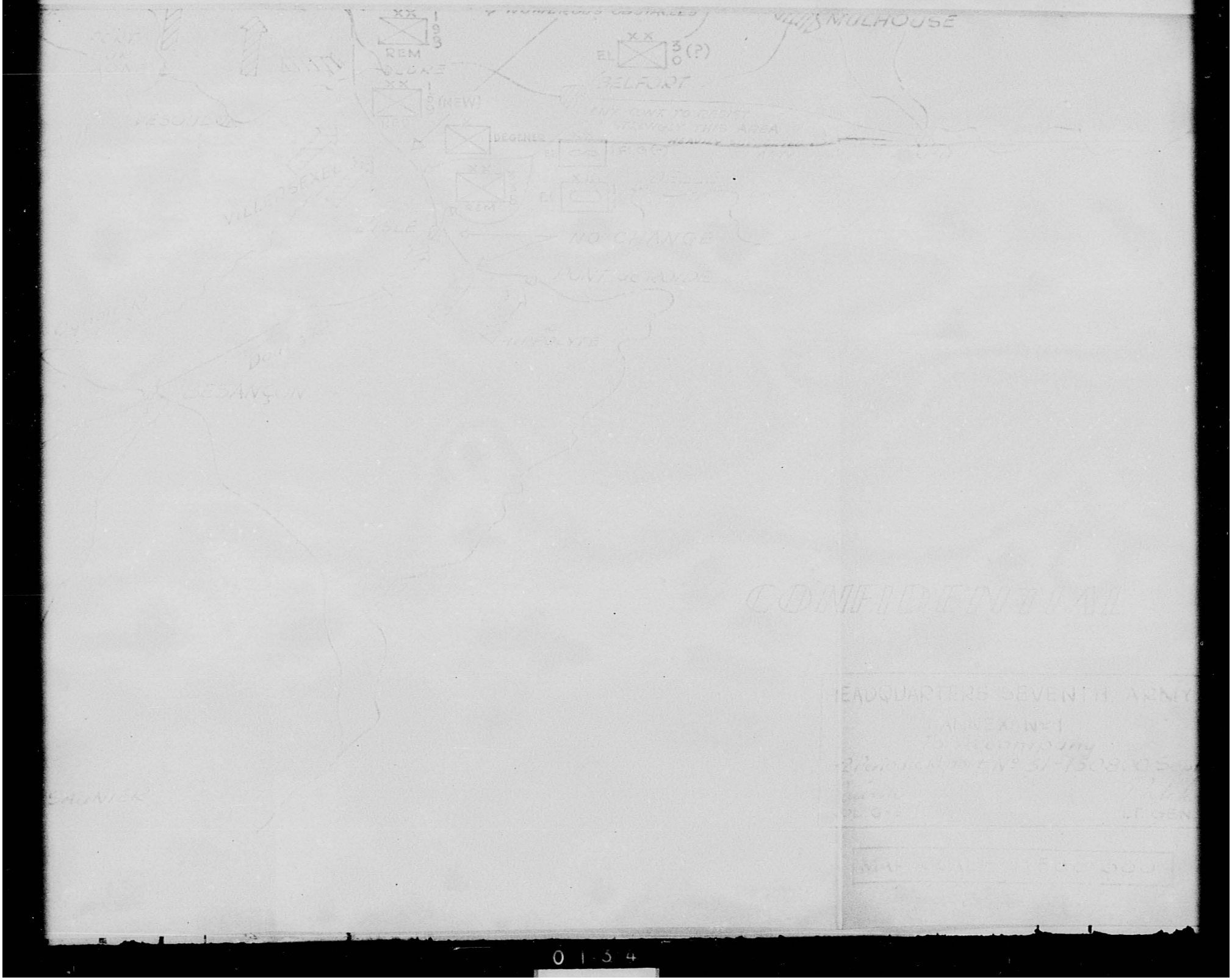


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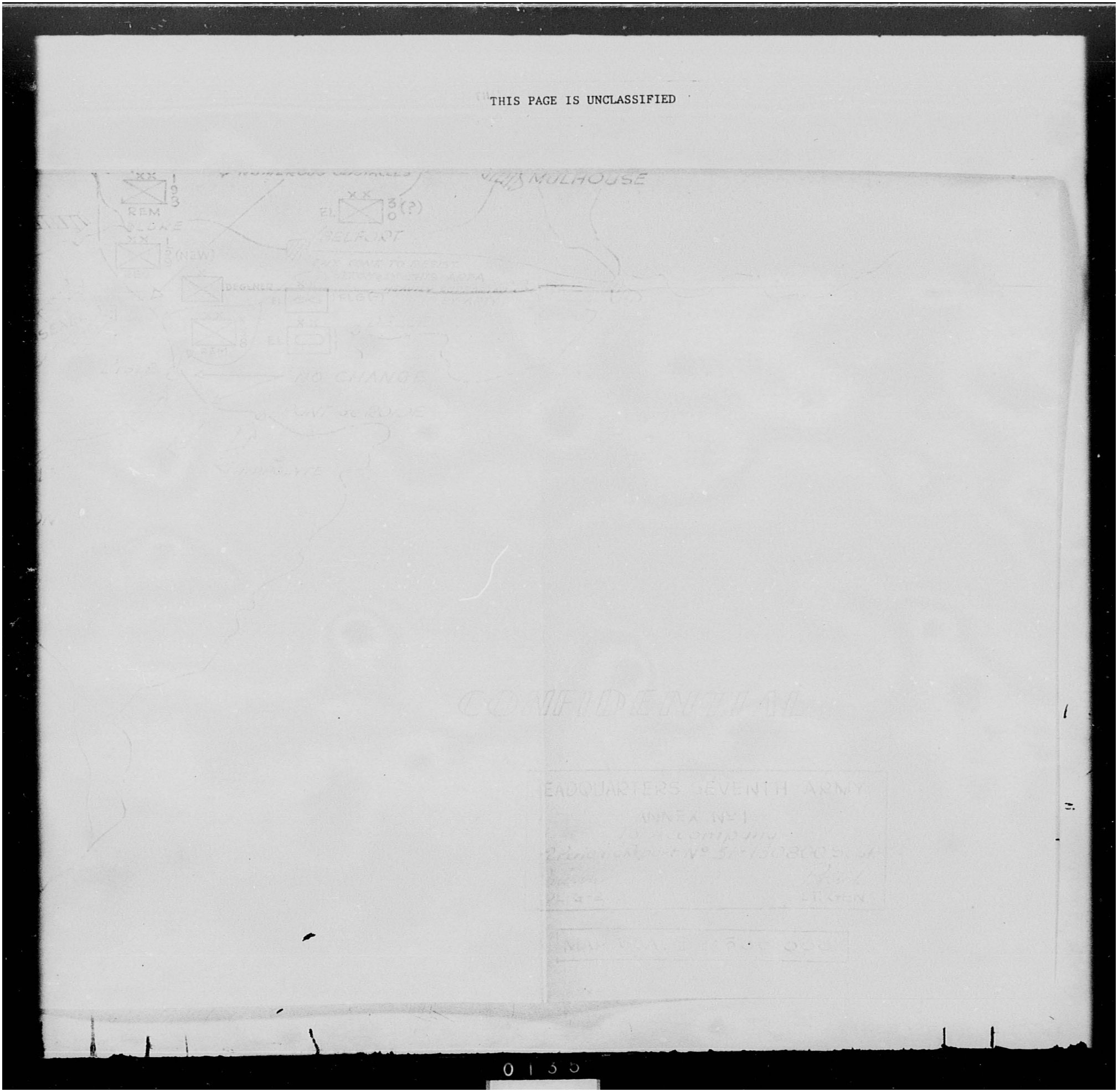
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G-2 Div TAC.
Lt Col Wiseman
Lt Col Adams
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HEADQUARTERS SEVENTH ARMY
Office of the ... C. of S., G-2
APO 758 US ARMY

Copy No. 37

Ref No. X-82

From: 130800B Sept 44
To : 140600B Sept 44

G-2 REPORT

Hq. Seventh Army
In the Field
141200B September 1944

NO. 30.

Map: GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and forward elements - Annex No. 1, Overlay.
   b. Defensive Organization.
      (1) An enemy roadblock at O-9992 continued to hold out during the morning 13 Sept.
      (2) CP of the 16th Inf. Div. was last reported to be at EPINAL (V-0553).
   c. Units in Contact.
      (1) Identifications.
          338th Inf. Div.
              758th Inf. Regt. - SHAEF reports identifying this unit by PW south of NANCY.
          194th Sicherungs Regt.)
              3rd Bn.) identified in the
          1000th Sicherungs Regt. (Mtz).) VALLERSXEL (P-0791)
              1st Bn.) area.
              2nd Bn.)
          520th Mon. Bn. - elements identfied OISELAY (O-7174)
          403rd East Mounted Bn.)
          Reinhard Battle Group.) identified W of VESOUL
          Elements:) (O-8898).
              608th Mobile Bn.)
              907th Landesschutzen Bn.)
      (2) Organization and Strength.
          (a) 242nd Inf. Div.
              PW's from the remnants of this unit state that the Div. staff was not captured at TOULON, but that Gen. BASSLER was badly wounded on 21 August.
          (b) C.G., Toulouse Area.
              The F.F.I. report they have taken 1,000 PW's in SW France, including Gen. MAYER, former C.G. of the Toulouse area.
          (c) Battle Group Reinhard.
              A captured document dated 29 August identifies this Battle Group to be part of the 16th Inf. Div.

2. ENEMY OPERATIONS DURING PERIOD.
   a. General Summary.
      The enemy continued to withdraw north and northeast except in the L'ISLE (P-1981) - MONTBELIARD (P-3683) area where he continued to anchor his pivoting maneuver. Resistance was also encountered on the left flank of VI Corps in the vic of VILLERS - SUR - PORT (J-8008) where the enemy appearantly attempted to delay U. S. envelopment of his right flank. In the L'ISLE - MONTBELIARD area resistance was heavy and took the form of numerous counterattacks, some supported by tanks. In the RIVIERA sector enemy positions with concrete emplacements were encountered. West of the SAONE river opposition continued light except for a few pockets of resistance southeast of LANGRES (J-2322). Train movements towards the MULHOUSE (V-9312) area from Germany were again observed. Opposite the 1st ../B TF more than usual M/T movement was observed and probably had to do with the appearance of the 34th Div. in that area.

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b. Operations of Component Elements.

(1) Antiaircraft Artillery.

13 Sept. : Intense, light and heavy flak Vs-7497.

(2) Artillery.

L'ISLE (P-1981) and D'ARPIERRE (O-9486) were heavily shelled by 105mm and 150mm artillery during the period, and the counterattack on PORT SOUS SAONE (J-7706) was supported by 155mm fire from the N.

(3) Infantry.

(a) French Army "B".

I Corps.

Increased enemy activity was noted opposite I Corps, an enemy counterattack towards SOURANS (P-2476) was made during the morning. Many local enemy counter-attacks supported by artillery and tanks were launched and repulsed by the French. PONT DE ROIDE (P-3474) was still strongly held by the enemy.

During the afternoon an enemy counterattack supported by tanks forced the French out of VILLERS SOUS ECOT (P-2972), but French troops were able to recapture PONT DE ROIDE. In the Alpine Pass sector, the COL PETIT ST. BERNARD was found to be strongly held by 4,000 men and three batteries of artillery.

II Corps.

In the II Corps sector enemy resistance was mainly light. However, opposite LANGRES (J-2322), the enemy appeared to be holding out in some strength and in the PRAUTHOY (J-2202) region resistance forced French troops to deploy and execute a flanking movement.

During the afternoon LANGRES was occupied without resistance. The enemy was reported holding out in the town citadel. Southeast of LANGRES contact was made with scattered elements in the area LEFFOND (J-3502), COUPLMIC (J-3404), GRENANT (J-3806) and French reconnaissance elements were counterattacked vic FAYL - BILLOT (J-4515).

(b) VI Corps.

After the capture of VESOUL (O-8898) on the 12th, resistance in that vic weakened and did not again develop strength. North of the town only light contact was reported on the morning of the 13th along the line VILLERS SUR PORT (J-8006) - BOUGNON (J-8306) - CHOUTIER (J-9601). The heavy resistance previously reported opposite the 45th Div. weakened considerably on the morning of the 13th. Patrols of the 45th Div. encountered roadblocks covered by SA and MG fire at P-1884 and P-1981.

During the afternoon strong resistance developed on the N and southern flanks of the Corps front with only scattered delaying actions in the central sector. The 36th Div. encountered stiff opposition at VILLERS SOUS PORT (J-8008). The 3rd Div. continued to the NE against only scattered resistance. In the 45th 45th Div. Sector, VILLERSEXEL (P-0891) was occupied without opposition, but stiff enemy resistance continued to be encountered on the right flank of the Div. with the enemy increasing his use of barb wire defenses.

(c) 1st A/B Task Force.

1st A/B TF reported they were encountering heavy concrete emplacements which were offering stubborn resistance.

c. Miscellaneous.

(1) Movements.

Weather restricted T.C/R and caused cancellation of afternoon missions. A mission from 0735B to 0845B observed three trains moving south from FREIBURG to MULHOUSE (V-9312). One

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train with 25 RR cars was reported moving south from [illegible] (M-0947). No motor traffic was observed from 0734B to 0845 on roads southeast into BELFORT but fifteen M/T were reported moving both ways from MULHOUSE to ÖERNAY. (V-5812)

Fighter planes on a ron mission over road nets opposite the Airborne Task Force observed more traffic than usual probably reflecting the shifting of forces by the appearance of the 34th Div. in this sector. From 1110B to 1230B, 84 H/D vehicles were observed moving northeast at M-6413. Fifteen vehicles were observed at M-4256 and at M-4058, parked facing northwest. Intense light and heavy flak received from S-7497. No movement was seen on roads LURE (K-1206) - CERNAY (V-5812) - EPINAL (V-0553) from 0845B to 1020B, and on the road net LURE (K-1206) - LUXEUIL (K-0221) - EPINAL REMIREMONT (L-1743) - BELFORT - ALTKIRCH (Ma-6292) - MULHOUSE from 1110B to 1255B.

(2) Human Torpedoes.

Gun fire support ships in the MENTON (Vs-7786) area were attacked by human torpedoes on 10 September. No damage was inflicted on the Allied ships. Ten torpedoes were reported sunk, and one possibly sunk.

3. MISCELLANEOUS.

a. Weather Forecast.

15 September: Cloudy with light rain. Visiblity 5/6 miles. Wind South 5 MPH, temperature continued cool.

16 September: Partly cloudy. Visibility 10 miles. Very little rain and slightly warmer.

4. ENEMY CAPABILITIES.

See G-2 Estimate of the Enemy Situation No. 2, dated 14 September.

WILLIAM W. QUINN
WILLIAM W. QUINN
Colonel, G. S. C.,
A. C. of S., G-2.

Encl: Annex No. 1, Overlay.

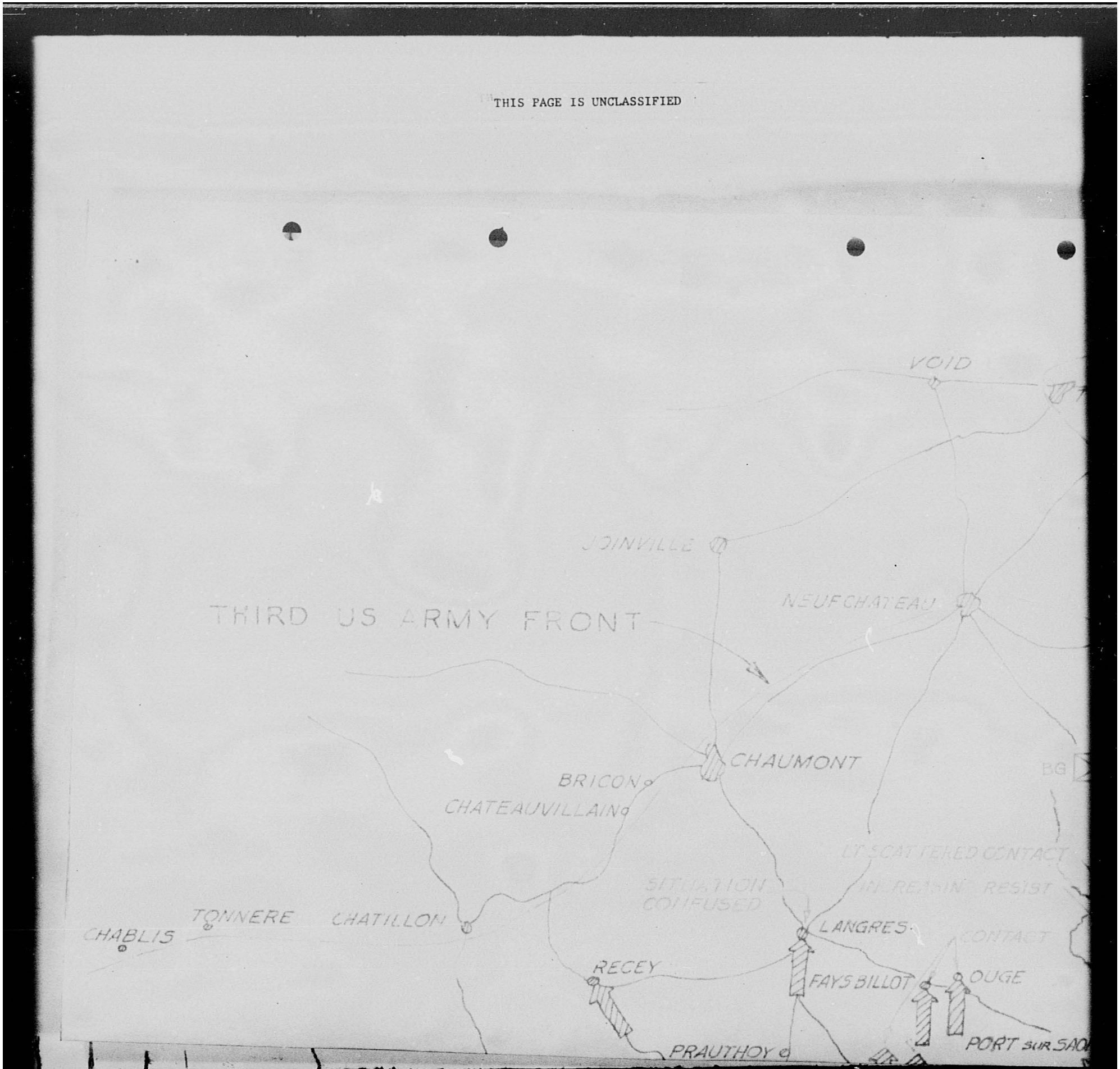
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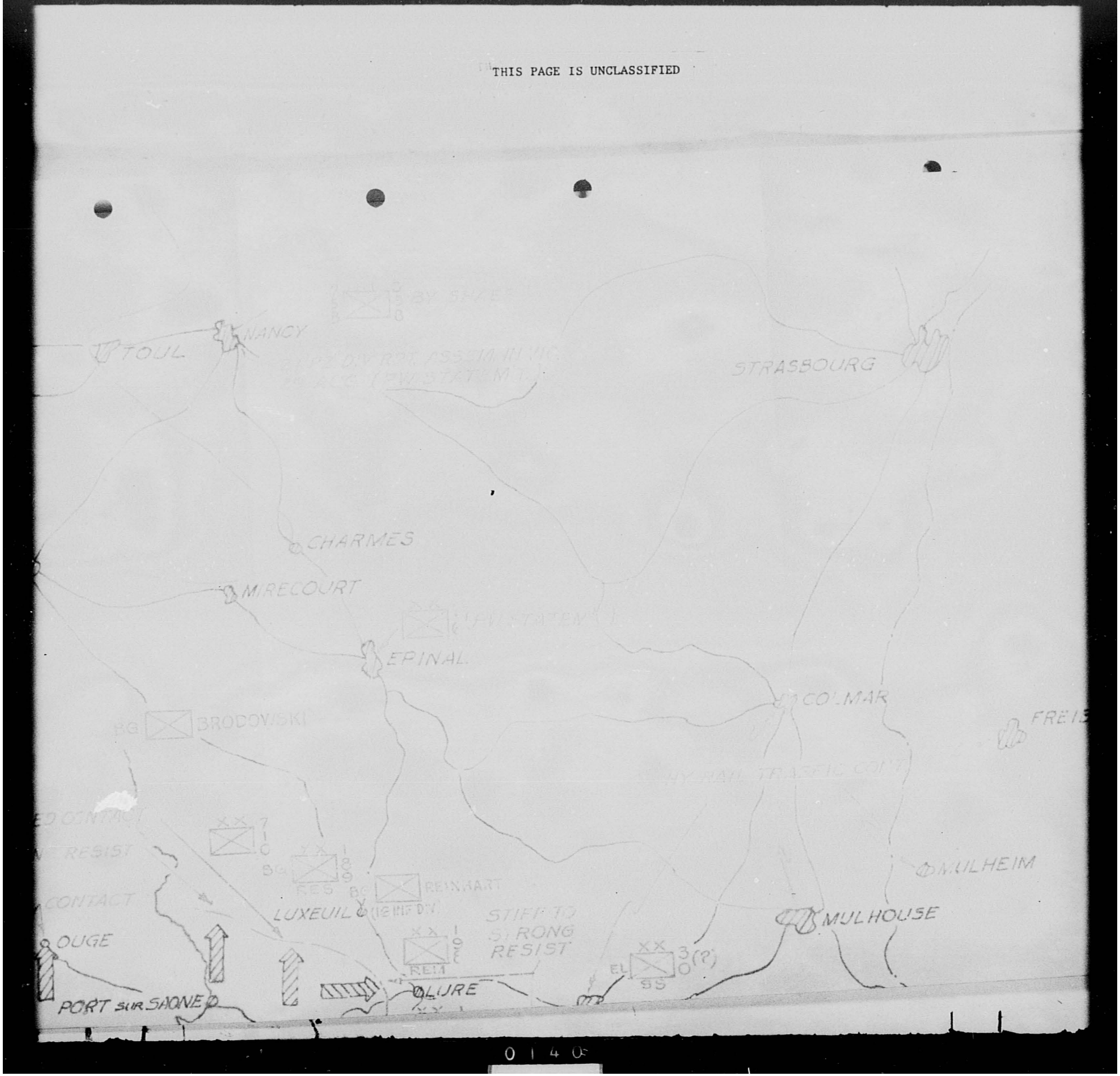
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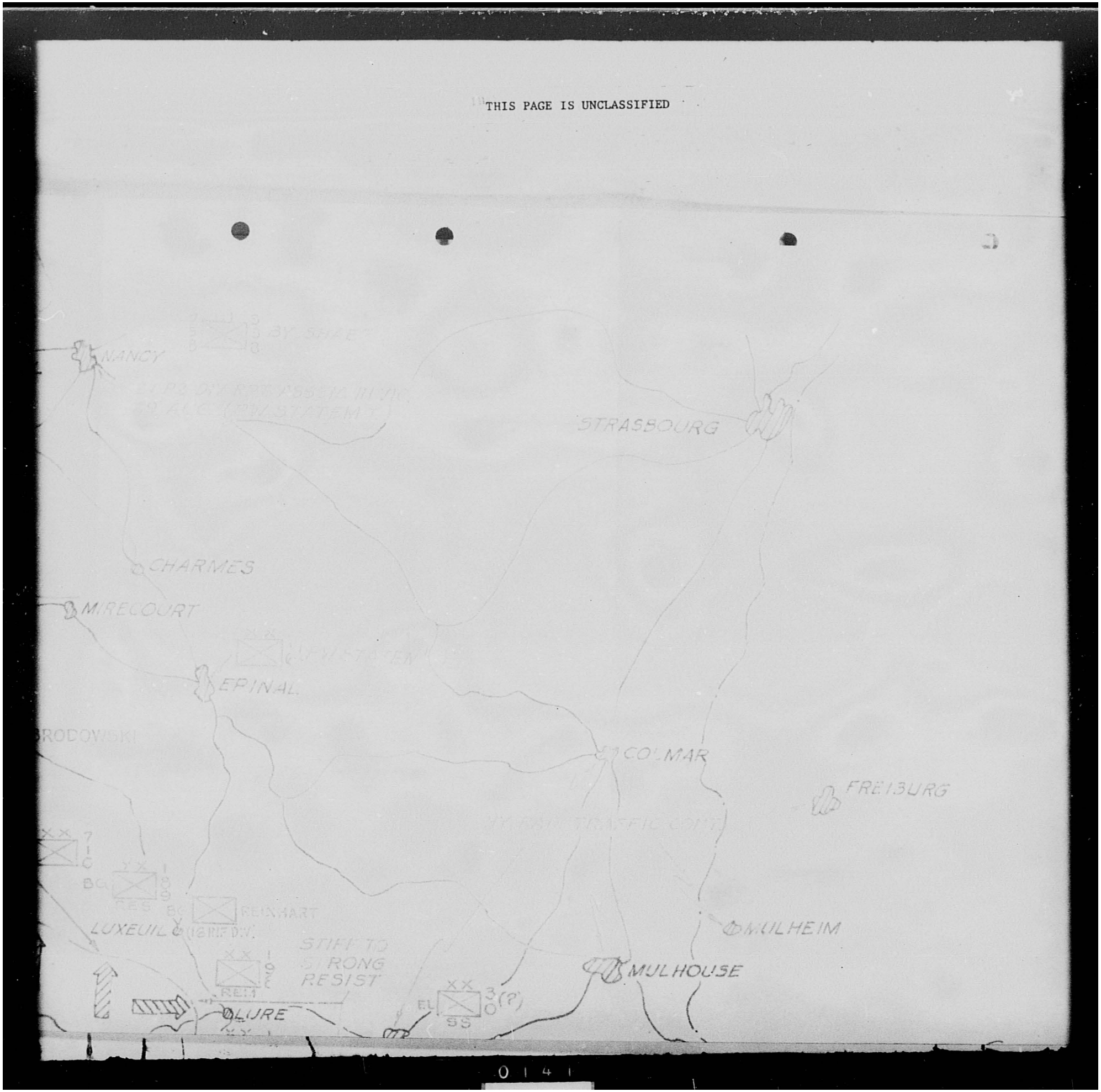
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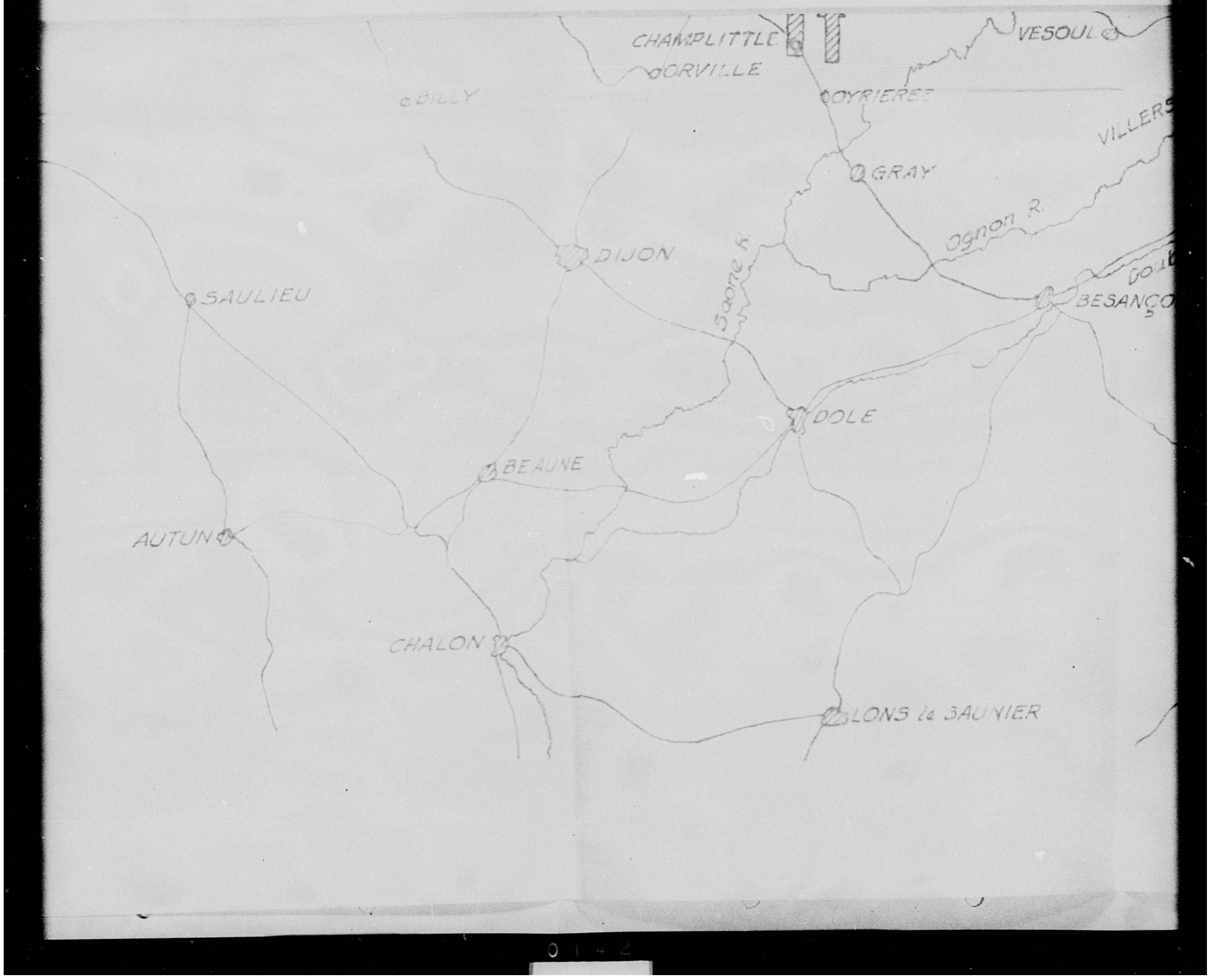
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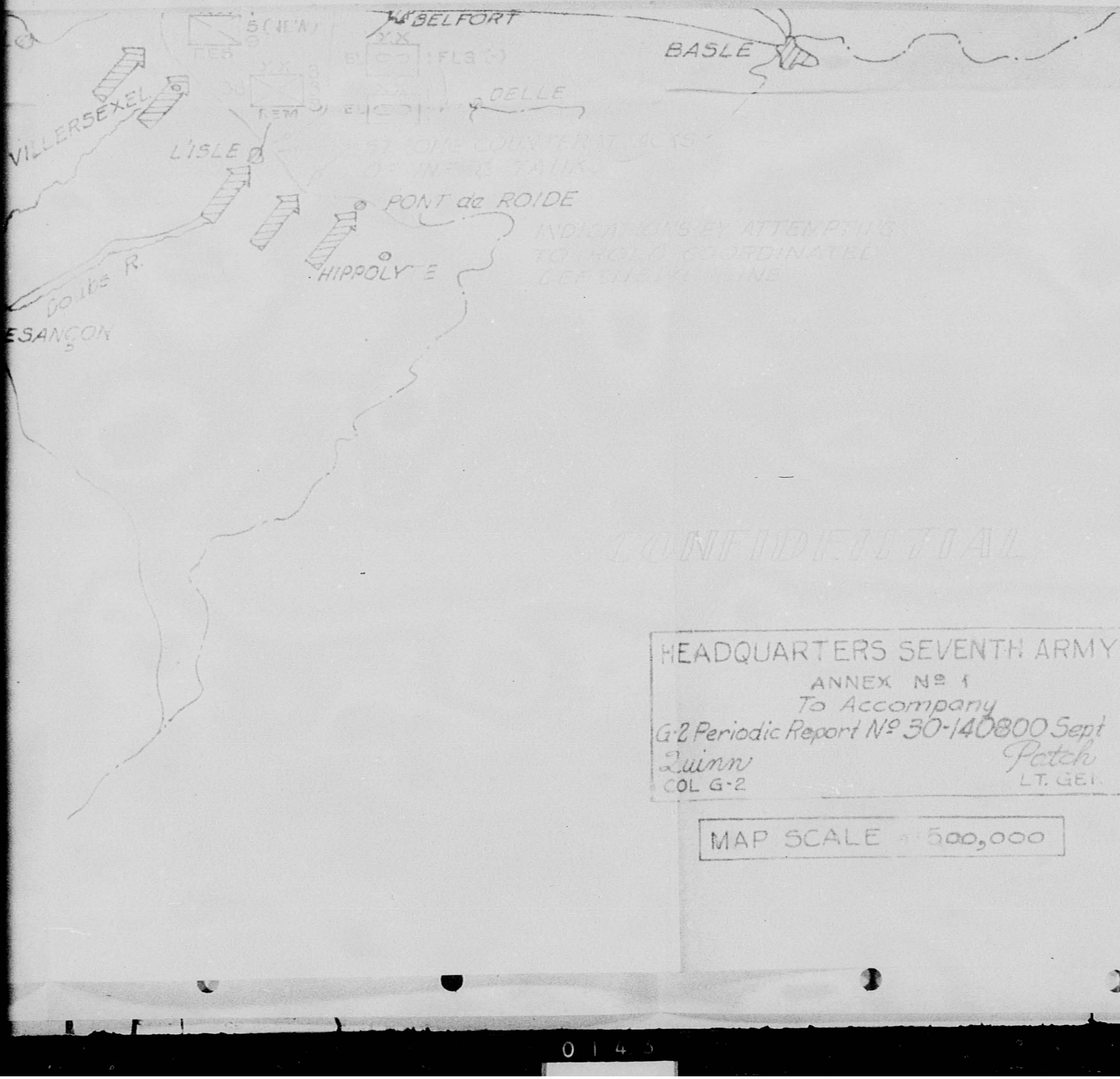
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Capt Auclair

G-2 ESTIMATE OF THE ENEMY SITUATION NO. 2

Ref No. X-111

Copy No. 39

Hq. Seventh Army
In the Field
14 September 1944

I. SUMMARY OF THE ENEMY SITUATION.

A. General.

DRAGOON assault found the enemy in Southern FRANCE in a difficult situation. The early Allied success in Northern FRANCE had demanded more and more units to stem the tide, and both the Nineteenth and First Armies had been called upon by the German Command in the West to furnish troops. The 338th Infantry Division had earlier dispatched one of its regiments Northward, and the 11th Panzer Division, on D-Day itself, was in the process of moving to the Northern battle area.

The initial reaction of the enemy to our assault followed his established pattern of a pre-conceived plan, wherein units automatically moved toward the threatened area with intentions of throwing the assaulting forces back into the sea. However, the enemy was not long in appreciating that he was over-optomistic in his plan, and a hurried reversal of direction was initiated, whereupon the Nineteenth Army lost four of its divisions - two being holed up and destroyed at MARSEILLE and TOULON, respectively, and two others beating a hasty retreat to the doubtful haven of ITALY.

From captured documents and statements from PW's, it was determined that LYON was to be the initial assembly point for the later trek Northeastward of those units who were fortunate enough to run the gauntlet at MONTELIMAR. At MONTELIMAR, the enemy's losses in men, and, more particularly, vehicles, horses, and guns, were heavy, and have materially effected his ability to delay our advance Northward, with the subsequent result that he was unable to complete the extraction of all of his elements in Southwest and Southeast FRANCE.

After assembling his troops in the general area of LYON, the enemy made use, mainly, of the LYON - DIJON highway, for the continuance of his withdrawal of his forces to the Northeast, while screening action was initiated to the south along the axis of the BOURG - BESANCON highway. Bitter fighting was encountered at numerous points as the enemy made the maximum delay at the more important communication centers.

It was above LYON, west of the SAONE River, that the 716th Infantry Division made its debut in the fighting, along with elements of the 16th Infantry and 159th Reserve Division, the latter two being from the First Army. The appearance of the two divisions from the First Army introduced a new factor into the enemy's delaying action. There was concurrent with his delay up the RHONE Valley, and Northeastward from LYON, a mass exodus of some 100,000 or more individuals - mostly line of communication and service troops - out of Southwestern FRANCE, making their way laboriously to the Northeast through the rapidly dwindling corridor between the Third and Seventh Armies. This factor provided the enemy with the need to delay our advance for the time required to extricate these people. It was obvious, from the beating the Nineteenth Army had taken in its move Northward, that it was in no position to effect the necessary delay; therefore, the enemy found himself in a position of having to throw fresh combat troops into an undesriable action in order to extricate service units, as he had obvious need to save all individuals possible to man the West Wall.

B. Present Enemy Situation.

Currently, it appears that the remainder of the First and Nineteenth

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Armies have made their way east of a line, DIJON - LANGRES. It is possible that there are elements farther to the west, but they are of no considerable strength, and their effectiveness, from an Army standpoint, is not worth considering.

The intensity of the fighting in progress in the area northeast of VESOUL - VILLERSEXEL - L'ISLE, and south of the DOUBS River, in conjunction with the rapid progress of the French II Corps to the Northeast, indicates that the enemy is effecting a turning movement, hinged on MONTBELIARD with the north wing presumably reaching for the German forces opposing the Third Army to the north. The 3rd or 17th Panzer Grenadier Divisions, who are south of NANCY, could provide a screen through which the battered remnants of the First and Nineteenth Armies may pass in order to give them time to re-organize for the coming battle to the approaches to GERMANY.

From available information, it is likely that units of the First Army have been placed under command of the Nineteenth Army, and the current disposition of the Nineteenth Army is believed to be as follows: Southwest of MONTBELIARD is the LXXXV Corps, with the 11th Panzer and elements of the 1st Flieger Training Divisions under its command. From the DOUBS River, Northwestward to SAULX-DE-VESOUL, is found the IV GAF Corps, with the remnants of the 198th, 159th Reserve, Battle Group DEGENER, and 338th Divisions under its command, with elements of the 11th Panzer Division in the area. From SAULX-DE-VESOUL, Northward to the SAONE River, it is believed that Battle Group REINHARDT, remnants of the 189th Reserve Division, 716th Division, and Battle Group BRODOWSKI, are operating under the command of the LXIV Corps. Farther to the North, and currently unlocated, is the LXVI Corps, under whose command Battle Group OTTENBACHER and 16th Infantry Division are assumed to be.

The Nineteenth Army has taken severe losses, with none of its divisions approaching anything like T/O strength. It is estimated that the following is the strength of the identified division of the Nineteenth Army which are currently available for future action:

11th Pz. Div. - 8000/9000 men (30/50 tanks, Mk. IV's, V's).
30th SS Inf. Div. (Russians) - 6000/8000 men (of doubtful fighting quality.)
716th Inf. Div. - 4000/5000 men.
198th Inf. Div. - 4000 men.
189th Res. Div. (including 28th Res. Inf. Regt.) - 3500 men.
338th Inf. Div. (Battle Group) - 4000 men.
16th Inf. Div. - 6000 men.
159th Res. Div. (re-organizing Sept. 12) - 5000/6000 men.
1st Flieger Training Div. - Estimated three bns. of infantry.

NOTE: In addition to these forces, miscellaneous Security Regts., AA, Service, Naval units, etc., are present and being formed into Battle Groups.

To the North and rear of the present area of action - viz., in the BELFORT - MULHOUSE - COLMAR - FREIBURG area - the enemy continues his heavy train movements. Agents report of the arrival of fresh motorized or armored units from GERMANY, and the reinforcement of this area is considered most likely. The appearance of the 15th and 3rd Panzer Grenadier Divisions in the battle area farther to the North, in conjunction with the absence of several units from the battle area in ITALY, is significant. It is pointed out that rail movement from ITALY into the present battle area requires only three to four days, and it should be expected that the enemy will reinforce the more critical areas at the expense of theaters of lesser importance. Agents further report the intensification of defensive work in the VOSGES Mountains, and the digging of defensive positions in the BELFORT corridor.

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Farther to the North, the enemy has resisted bitterly the U.S. Third Army's attempt to force a crossing over the MOSELLE River. This major obstacle has stood him in good stead and has enabled the enemy to effect some semblance of re-organization before being pushed back to the RHINELAND.

Currently, the Third Army has opposing it, from LUXEMBOURG Southward, four infantry divisions, three panzer grenadier divisions, one armored division, and three panzer grenadier brigades. The bulk of these units, however, have been fighting for some time, and their effectiveness has undoubtedly been seriously impaired.

If, as has been stated, the enemy in our sector is in the process of effecting a turning movement, it is then likely that the general area, EPINAL, will be the point where the two enemy forces could effect a coordinated junction. From EPINAL, the upper course of the MOSELLE River does not present the obstacle it does farther to the North, but the stream does lend itself as a minor barrier and, certainly, as a definite line for coordination. Therefore, it should not be surprising to see the LXVI Corps withdraw through the 17th SS, or the 3rd PG Division, to the East Bank of the MOSELLE R. Farther to the south, the enemy can continue his defense in the present battle area of LUXEUIL - LURE - MONTBELIARD. When forced, this group could withdraw back onto the Southwestern foothills of the VOSGES, a position which offers excellent observation, fields of fire, and presents a real obstacle to mobile units, meanwhile continue his present tenacious defense in the area south of the RHONE-RHINE Canal.

II. CONCLUSIONS.

Considering the foregoing, it is believed that the enemy has the following capabilities:

A. Enemy Capabilities:

1. Continue his present defense on the approaches to MONTBELIARD and the Southwestern foothills of the VOSGES Mountains; meanwhile, swing to the east his forces now Northwest of LUXEUIL, effecting a junction with the enemy forces to the North in the vicinity of EPINAL.

2. In conjunction with the enemy to the North, defend the Western approaches to the VOSGES Mountains from EPINAL South through the BELFORT corridor.

3. Delay on the VOSGES Mountains and in the BELFORT corridor; meanwhile, withdrawing the bulk of his forces across the RHINE River into the SIEGFRIED Line.

B. Discussion:

From captured documents, and the nature of the current action, it appears that Capability "1" is being executed by the enemy.

The MOSELLE River, South from CHARMES, and, more particularly, the VOSGES Mountains, have defensive possibilities; and in light of the enemy's tactical doctrine and past performance, it should not be expected that he will abandon a position that is so favorable to him. However, the enemy's action in this area will be dependent on the turn of events farther to the North; and if the enemy to the North is pushed on to the East, then the Nineteenth Army, if it should be on the VOSGES Mountains, will have to adjust itself accordingly. Another factor in the occupation of a position on the VOSGES Mountains is that the RHINE River, to his back, presents the enemy with an obstacle, as well as one to ourselves; and in the event he is forced East, he may experience difficulty in getting his troops and,

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more particularly, equipment, over to the East side. Therefore, it is possible that the enemy may not wish to be caught with too large a force West of the RHINE: and once a junction has been effected with the troops in the NANCY area, a coordinated withdrawal to the East bank of the RHINE in our area is possible.

In conclusion, the enemy's choices in lines of action are few, but at the moment he shows no signs of admitting defeat, and the proximity of GERMANY and the defense of the Fatherland should be expected to give a lift to his shattered morale. Currently, and in the future, three factors will be in his favor: The terrain, the weather, and short lines of communication, advantages which he has not had in the past, and which he can use most advantageously at the moment.

William W Quinn
WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2.

1 Incl.:
Overlay - Enemy Battle Order.

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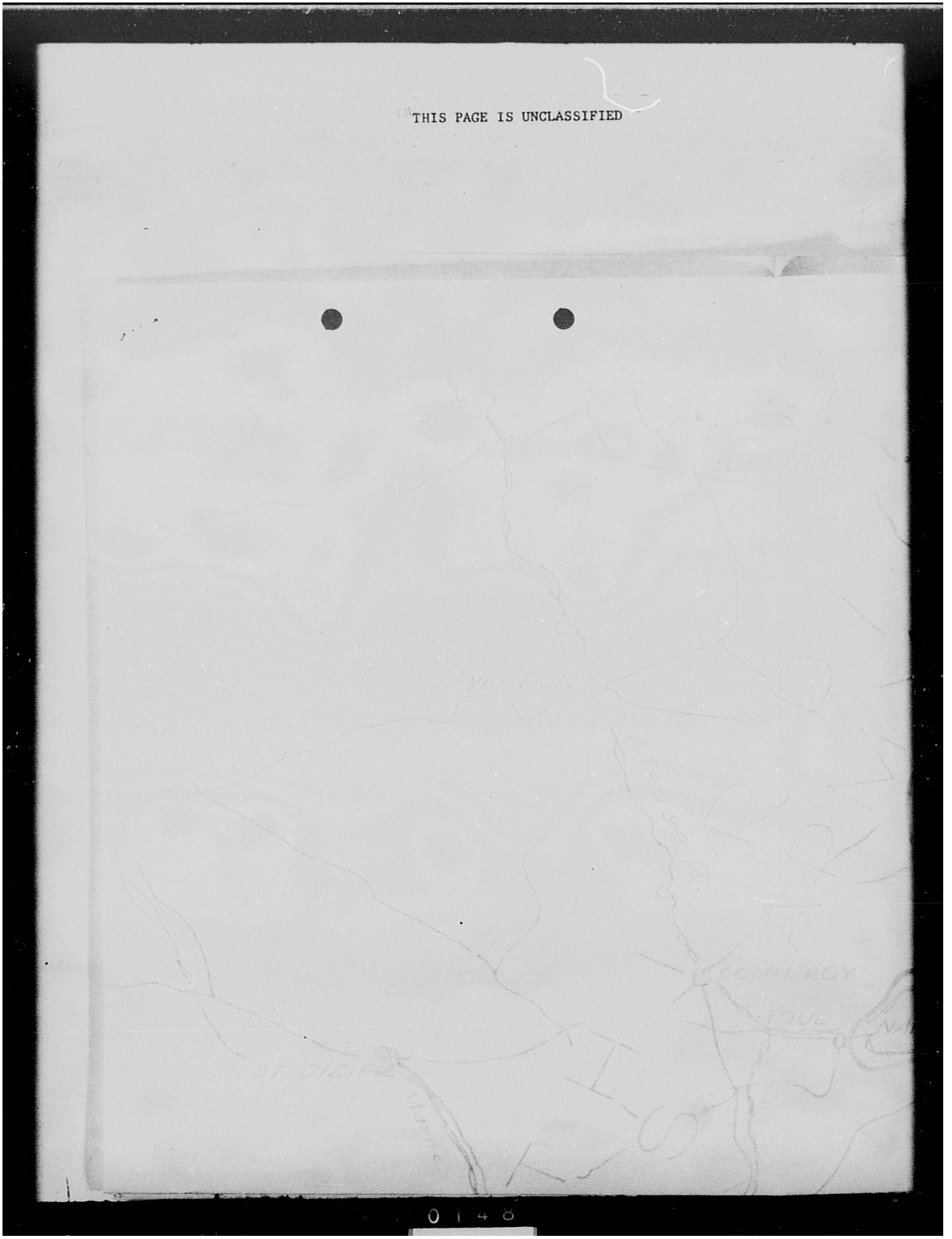
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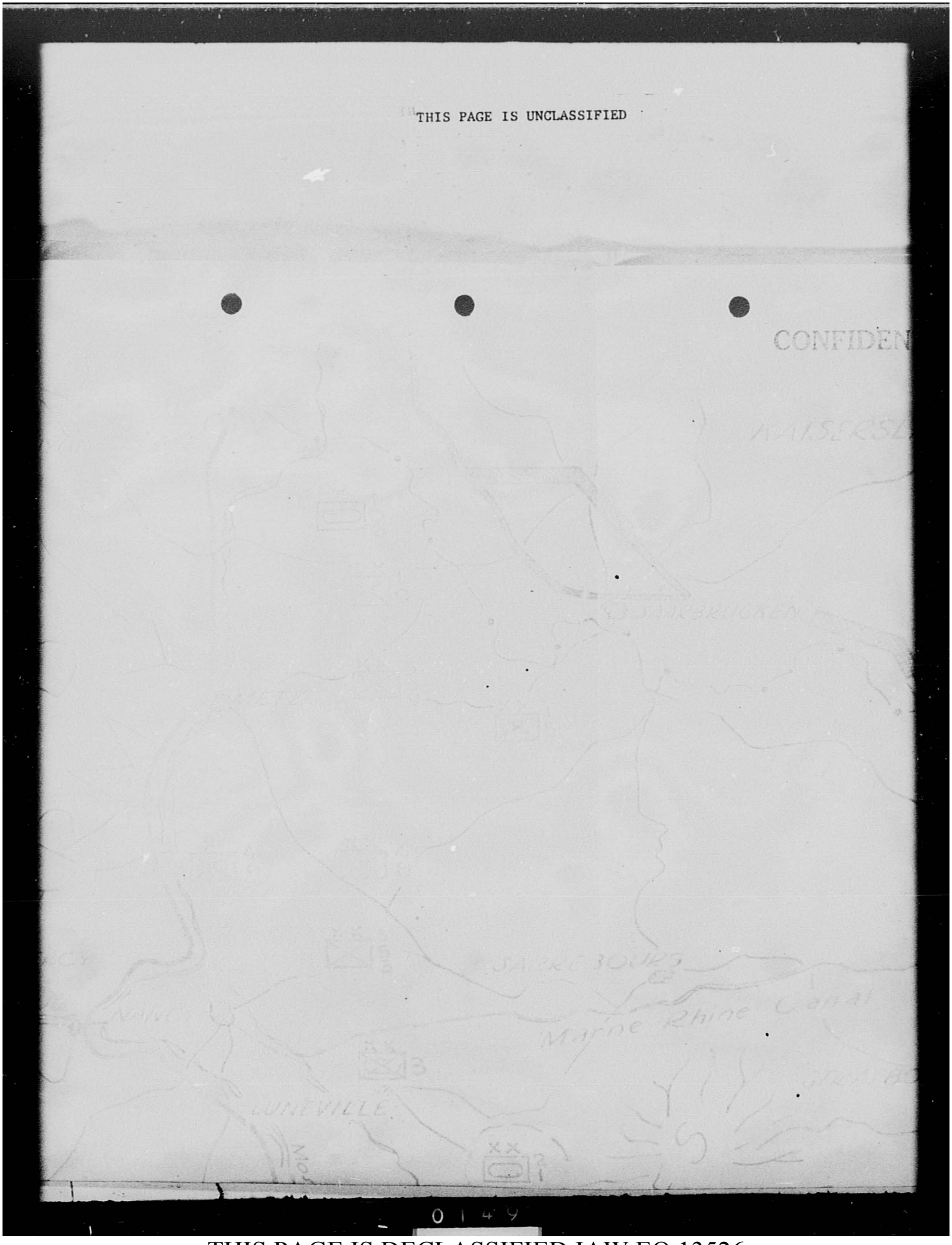


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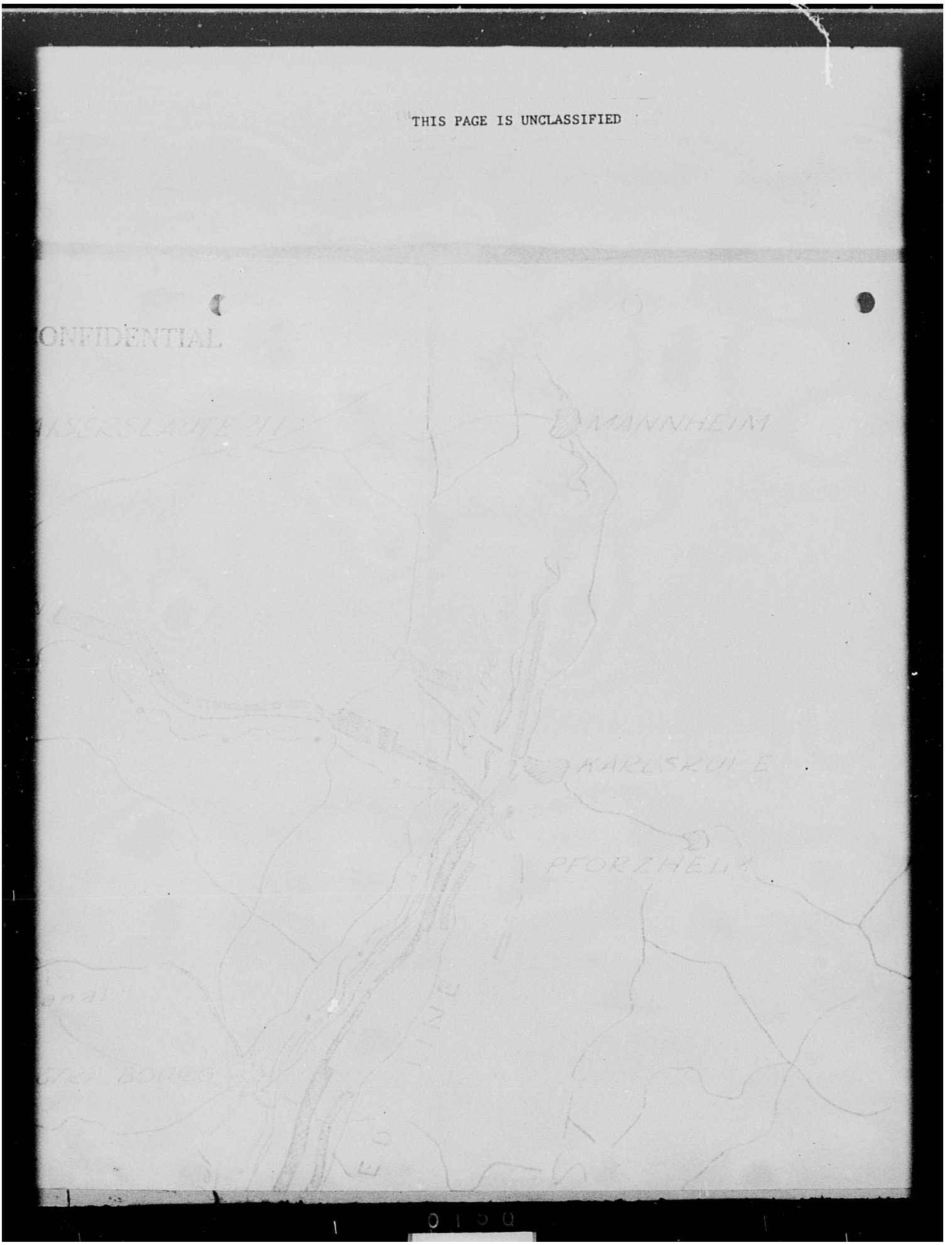


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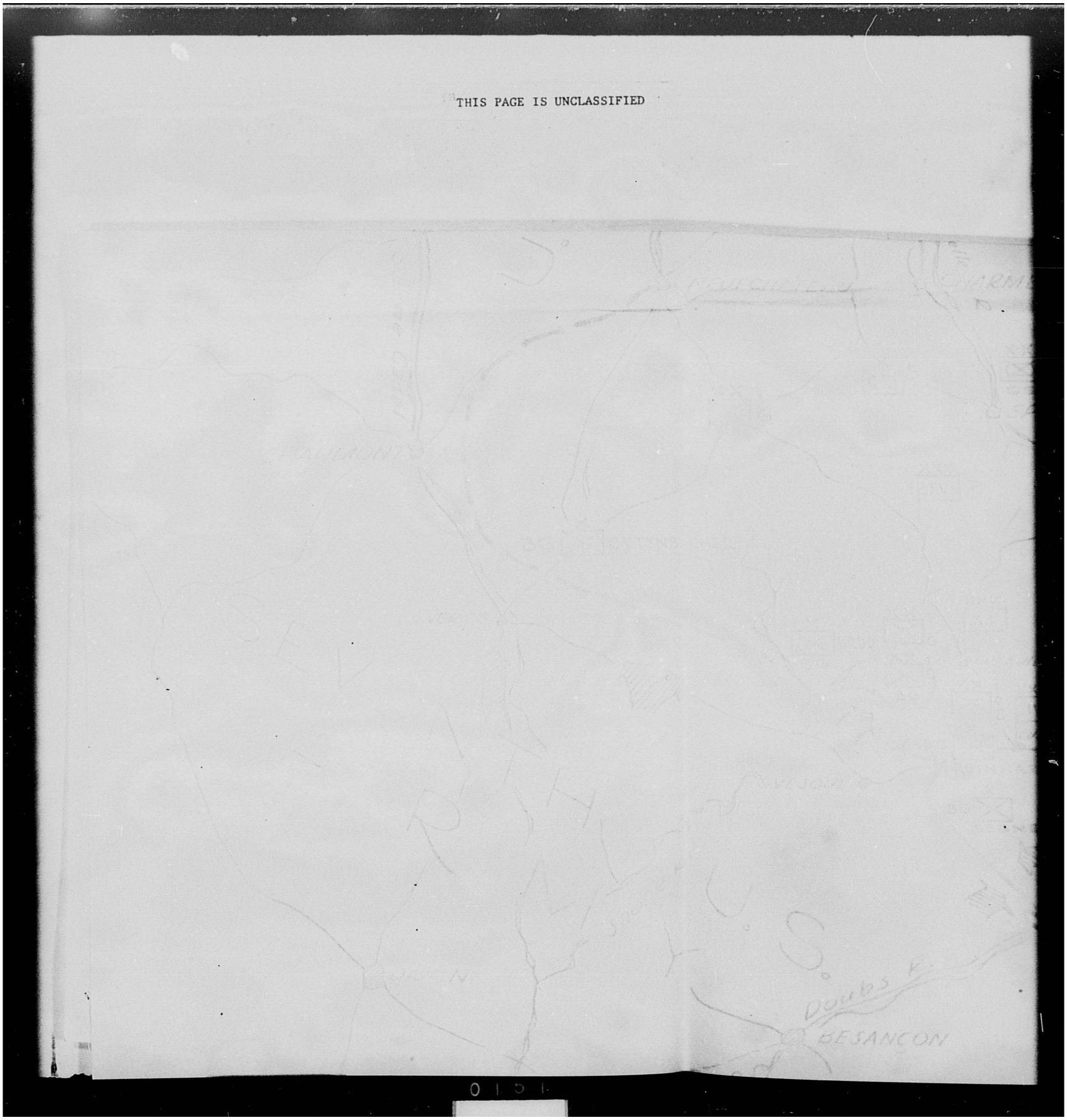
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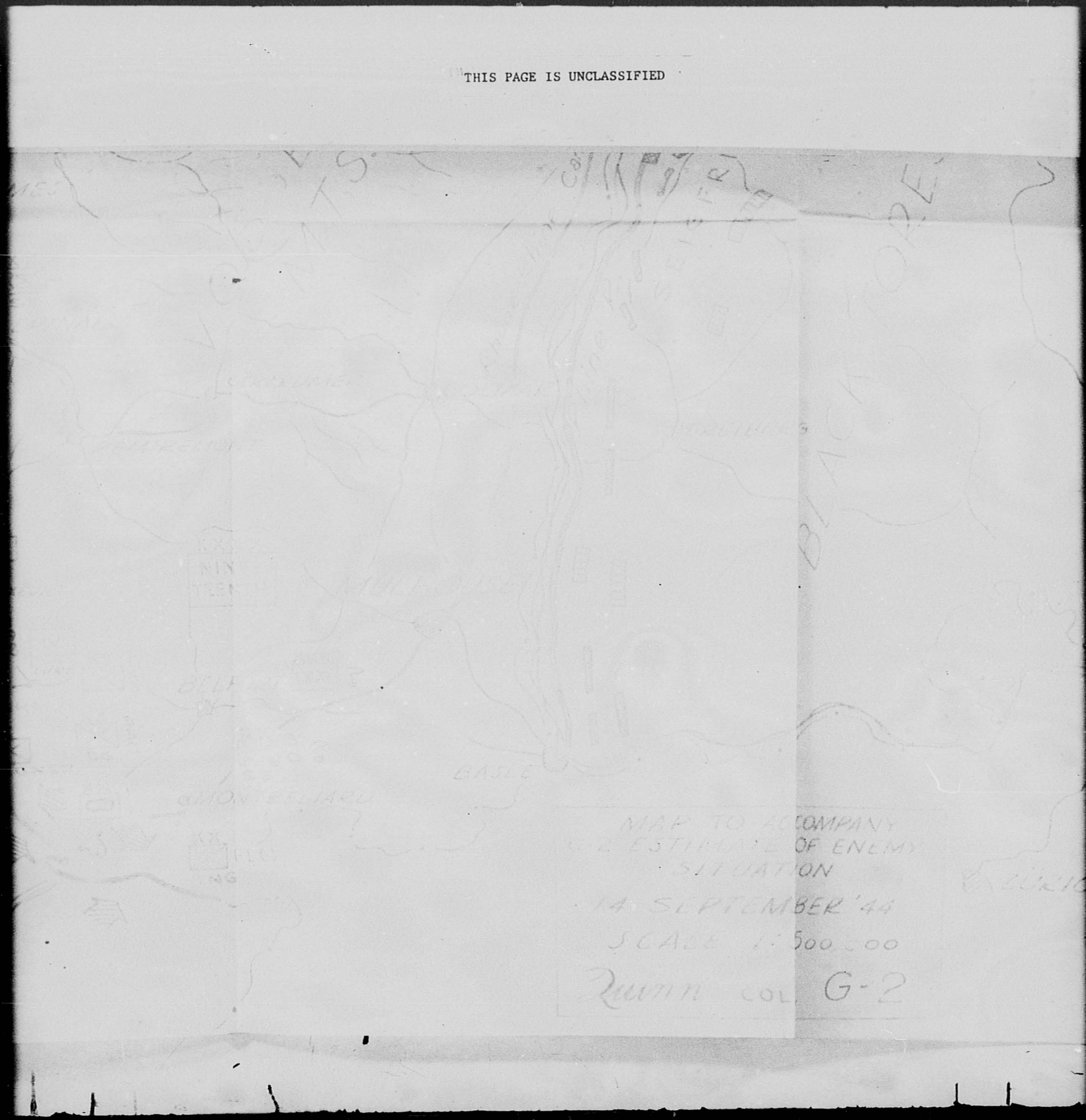
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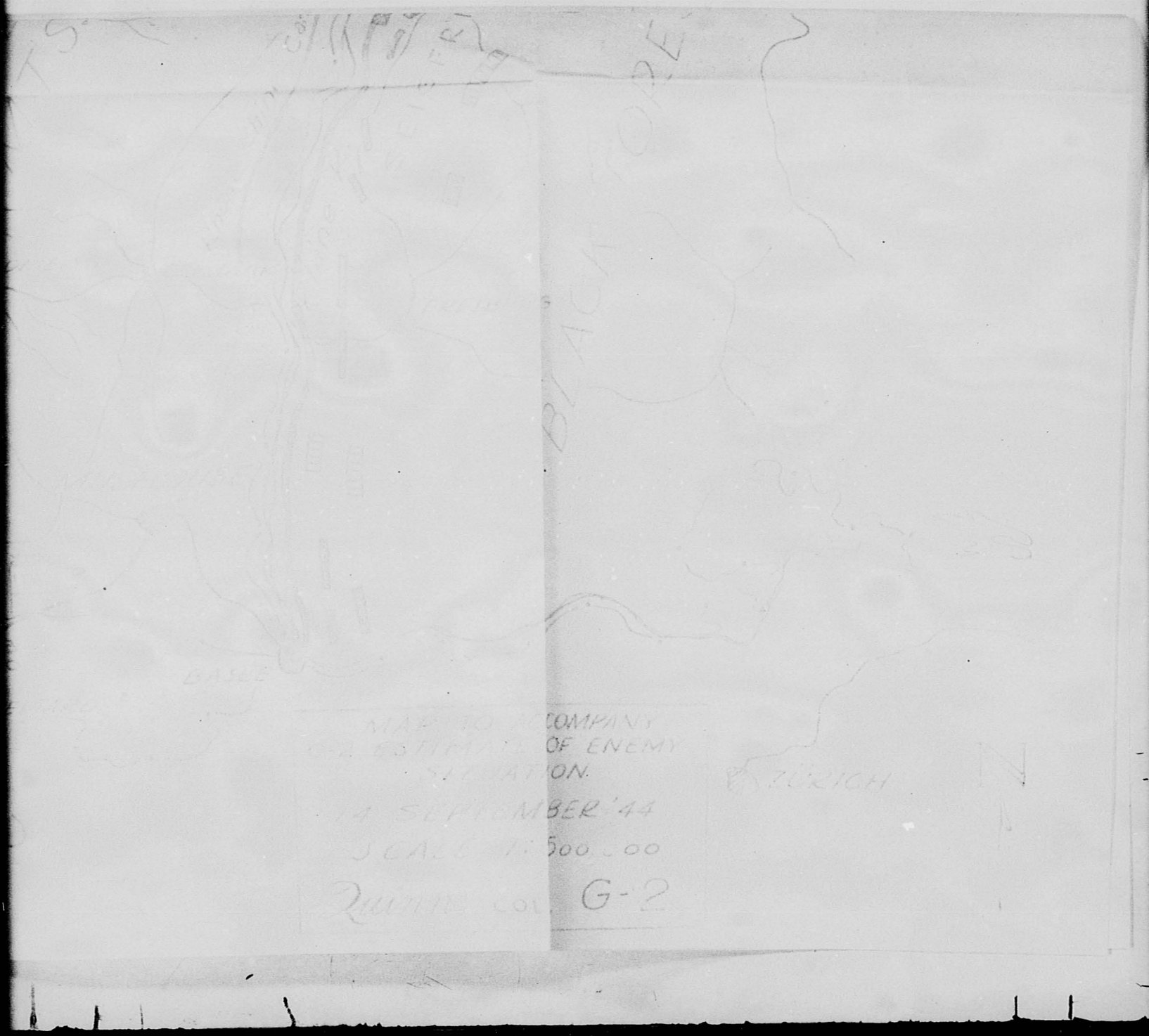
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HEADQUARTERS SEVENTH ARMY
APO 758

5 September 1944

SUBJECT: Directive.

TO : Commanding General, Army B
Commanding General, VI Corps

1. The boundary between Army B (less elements of I French Corps on our right flank) and VI Corps is extended as follows from CHALON SUR SAONE: SAONE RIVER to TRAVES (O-733968) all to Army B; thence to VESOUL (to VI Corps).

2. Axis of Advance:

Army "B": DIJON - EPINAL - STRASBOURG.

VI Corps: BESANCON - BELFORT - MULHOUSE.

I French Corps: BESANCON - BELFORT - MULHOUSE and routes EAST thereof, (coordinated with Commanding General, VI Corps).

By command of Lieutenant General PATCH:

A. A. WHITE,
Brigadier General, G.S.C.,
Chief of Staff

OFFICIAL:
JOHN S. GUTHRIE,
Colonel, G.S.C.,
A. C. of S., G-3.

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HEADQUARTERS SEVENTH ARMY
Office of the A.C. of S., G-2
APO 758 US ARMY

TARGET AREA ANALYSIS NO. 12.

MILITARY APPRECIATION OF SOUTHERN RHINE VALLEY
(And General Area of BELFORT - MULHOUSE - STRASBOURG - LUNEVILLE)

CONTENTS

I. TOPOGRAPHY
   A. Plain of ALSACE
   B. High VOSGES
   C. BELFORT Gap

II. MILITARY ASPECTS OF THE TERRAIN
   A. Operational Features
   B. Obstacles.
   C. Tactical Effect of Terrain

III. COMMUNICATIONS
   A. Roads
   B. Railroads
   C. Waterways

IV. AIRFIELDS

V. TOWNS

VI. CLIMATE

- - - - - - -

15 September 1944

By Command of Lieutenant General PATCH:

ARTHUR A. WHITE
Brigadier General, G.S.C.,
Chief of Staff.

OFFICIAL:

WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2.

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TARGET AREA ANALYSIS, NO. 12

MILITARY APPRECIATION OF SOUTHERN RHINE VALLEY
(and General Area of BELFORT - MULHOUSE - STRASBOURG - LUNEVILLE)

I. TOPOGRAPHY

The topography of this area fits into three major divisions: Plain of ALSACE, VOSGES Mountains, BELFORT Gap.

A. Plain of ALSACE.

This plain lies on the west bank of the RHINE River between the latitudes of MULHOUSE and KARLSRUHE, is bounded on the west by the foothills of the VOSGES escarpment and limited in the south by the BELFORT Gap and the northern end of the JURA Mountains. The terrain is generally level, and the valley is covered with immense quantities of alluvial materials, through which the RHINE has worn innumerable channels. Although the river's course has been straightened and dyked, many of these channels persist in the form of backwaters, dry stream beds and swamps and marshes, interspersed with low islands of gravel which form a marshy flood plain 1 1/2 to 6 miles wide along the course of the river. Swamp areas are often wooded.

West of the marsh ("RIED") area, a slight ridge runs north and south, dividing the flood plain of the RHINE from the flood plain of the ILL River, which runs parallel to the RHINE between the ridge and the VOSGES foothills. The ILL Plain has been largely reclaimed by drainage ditches and canals, although large patches of porous gravel and marsh still exist.

The ILL River, rising at the foot of the JURA Mountains, forms the drainage basin which captures the waters from the eastern side of the High VOSGES watershed, and delivers them to the RHINE. The VOSGES streams develop rapidly from mountain torrents to swift rivers, cutting deep valleys between the spurs of the VOSGES. These streams curve in a northerly direction on reaching the lower foothills, and converge on the ILL in almost parallel courses. The surface run-off from the VOSGES escarpment sweeps to the edge of the ILL Plain, where it is trapped by canals and ditches and fed into the ILL.

Forests cover the higher slopes of the Alsatian Valleys, oak and chestnut forming the larger percentage of the trees. Dense forests also occur along the gravel islands on the ILL plain, where willow, alder and poplar predominate. Heavy growths of rushes, reeds and marsh plants are found in swamp areas. Alternating with these forest and swamp areas are large tracts of open, barren country.

In later summer and autumn, large areas of ripening grain give a belt of yellow along the foothills and up the valleys, an effect which increases as the leaves of the trees begin to change. In the winter, brown is normally the predominate color as larger areas are under plow and turn up a reddish brown which, at that season, is also the color of the lower forests. Greys of the river channels show up more clearly as marsh vegetation dies away.

Barren and good cover areas alternate, but the vineyards, orchards and hop gardens in the foothills and lower VOSGES Valleys, as well as forest growth fringing the cultivated zones, do NOT provide good cover in the winter.

To the west of the Plain of ALSACE lie the rather abrupt terraced lands which merge into the foothills of the VOSGES. They consist of lime and sandstone ridges, covered with rich earth deposits which spread far up the valley, producing exceptionally fine agricultural land.

B. High VOSGES.

The granite massif of the VOSGES rises steeply from the Plain of ALSACE, lies northeast - southwest and blocks easy entrance to the

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RHINE valley from the west. The VOSGES consist of low, generally rounded mountains from 1000 to 4000 feet in height, arranged in parallel ridges which tend more to the northeast than does the whole range.

This is an area of forested mountains forming the southern part of the VOSGES chain which lies along the Franco-German frontier and reaches from BELFORT in the south to KAISERLAUTEN in the north. The SAVERNE Gap divides the High VOSGES from its northern extension, the Low VOSGES. To the south, the High VOSGES terminate abruptly in a series of summits towering above the BELFORT Gap.

On its eastern side, where the High VOSGES rises sharply from the Plain, the foot of its escarpment is taken as its boundary. On the western side the boundary is not so clearly marked and is taken as the junction of the LORRAINE Plain with the gentle rising VOSGES foothills, following a curving course roughly from BELFORT to EPINAL, then northeast through RAMBERVILLERS and BACCARAT to SAVERNE.

Average height of the VOSGES eastern ridge line is about 3,000 feet, but many summits rise above 4,000 feet, with elevation increasing southward where the highest point is the Grand BALLON (over 4600 feet), lying Northeast of BELFORT. The HOHNECK, the highest point on the main watershed, rises 4,400 feet just north of Grand BALLON. The long ridge lines are usually flat topped, fairly level, and carry stretches of moor, coarse pasture and peat bog, as well as large amounts of rock debris. Many granite tors rise above the level surface. The ground drops sharply to the east but slopes more gradually to the west, falling in a series of plateaus toward the LORRAINE Plain.

A feature of the VOSGES is its number of valleys. Main valleys stand at right angles to the main ridges and tend northwest on the western side and east or east-northeast on the eastern side. Tributary valleys parallel the ridges, lead far into the range, and terminate in a series of headstreams on the slopes of the main ridges. Valley bottoms within the VOSGES itself are sometimes poorly drained and long narrow lakes and swamp land areas often result.

The watershed is formed by the ridgeline of the range, which lies toward the eastern side of the mountain mass and parallel to the long axis of the Massif.

To the East, several long, curving ridges run out toward the RHINE Valley and form spurs above the swift rivers of the eastern scarp.

Beginning near the BALLON d'ALSACE in the south, the main ridge runs NNE for 60 miles to the CHAMP DU FEU, but 15 miles south of this point the Col du SAALES connects the main ridge to a parallel ridge which rises above ST. DIE and terminates above the SAVERNE Gap.

In the extreme south, several streams rise on the southern faces of the hills around the BALLON d'ALSACE and flow southward across the BELFORT Gap to join the DOUBS River near MONTBELIARD. This river flows into the SAONE. With this exception, the waters from the eastern flank of the High VOSGES eventually find their way to the RHINE.

Between BALLON d'ALSACE and HOHNECK, the MOSELLE is the most important stream, and in its course NW toward the LORRAINE Plain, it captures all the streams rising in this area.

The MEURTHE rises on the northern slopes of the HOHNECK near GERARDMER and, like the MOSELLE, it begins in a longitudinal valley, then turns toward the foothills in a transverse valley. By the time it has reached ST. DIE it has captured all the streams rising between the HOHNECK and the LE DONON.

The valleys of the western slopes, which penetrate far into the mountains, offer easy routes to the passes. There are about 15 between BELFORT and the SAVERNE Gap. Many carry only poor roads, but 7 can be regarded as fairly good routes. The most important is the Col de SAALES. It is not on either of the main ridges, but at right angles to them, and serves to link the LE DONON ridge with the northern end of the main ridge to the East.

Col de SAALES (1,837 feet) carries rail lines from LUNEVILLE and EPINAL to STRASBOURG and also a good road which provides an easy route from ST. DIE to STRASBOURG. There is also an excellent road from ST. DIE to COLMAR via Col BONHOMME.

The Pass of ST. MARIE - aux - MINES (2,470 feet) links ST. DIE with SELESTAT in ALSACE, and connects the valley of Upper MEURTHE with the valley of LEHPORE.

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The high Col de la SCHLUCHT (3,736 feet) carries the important road from EPINAL to COLMAR via the Valleys of the VOLOGNE and FECHT. Other important passes are:

1. Col de BUSSANG (2,398 feet)
2. Col de HANZ
3. Col de SCHIRMECK.

Ascent is usually easy on the west side of the range but on the eastern side the roads zig-zag along the mountain spurs before entering the valleys. Mountain pastures offer a possible route for movement on high ridges but numerous peat bogs limit their usefulness. The forests themselves are intersected by many paths, which might facilitate movement.

Dense forests cover the greater part of the High VOSGES below the level of the high mountain pastures (i.e., 3,000 feet). In the sandstone foothills, the forests grow down the valley sides, leaving only the narrow, cultivated strips in the bottoms. In the higher granite regions, the valley sides have been cleared of forest for some distance to provide pasture.

In spring and early summer, green is the predominate color.

In autumn, the evergreens are in sharp contrast with the changing colors of the leaved trees and the yellow and brown of the stubble fields.

In winter, the reds of the sandstone rocks and some of the granite become more noticeable after the forest leaves have fallen. Forests remain green at higher levels, but on the lower slopes, browns and russets predominate.

Cover is good, as about 60% of this area is forested. Exceptions are the following: a) High mountain pastures and summits. b) The open basin at ST. DIE. c) The floors and lower sides of the valleys.

Largest forest in the Plain of ALSACE lies in the north near HAGUENAU and in the south the Forest of NONNENBRUCH stands near MULHOUSE. Between MULHOUSE and STRASBOURG scattered areas of hardwood forests alternate with meadow. Willow and poplars line the stream and river banks.

In the High VOSGES, settlement follows the river valleys where ample waterpower has encouraged the development of textile factories, lumbering, pulp and barrel manufacturing.

EPINAL, on the MOSELLE River, near its entry to LORRAINE Plain, is the largest town. REMIREMONT, 10 miles upstream from EPINAL, is a town of growing importance, and ST. DIE, at the western foot of SAALES Pass, is a key communications center in the VOSGES. Villages are strung out along the lower slopes of the valleys, avoiding the floors.

C. BELFORT GAP.

This gap, approximately 15 miles wide at its narrowest point, lies between the commanding peaks of the High VOSGES on the north and the JURA on the south. It is formed of low, rounded, undulating hills (800-1500 feet), tending southwest. Fields, pasture and scattered woods can be found, and innumerable small lakes are located in the areas immediately northwest and southeast, the important fortress town, of BELFORT.

II. MILITARY ASPECTS OF THE TERRAIN.

A. Operational Features.

1. The SAVERNE Gap, at the northern end of the High VOSGES, which connects the LORRAINE Plain with the ALSATION Plain.
2. The BELFORT Gap at the southern end of the High VOSGES, which carries major road and rail lines (see Communications) from the west and southwest and is the main avenue of approach to the Plain of ALSACE.
3. The approach through the VOSGES from EPINAL / LUNEVILLE through ST. DIE and the SAALES Pass to STRASBOURG.
4. The approach through the VOSGES from EPINAL through GERARDMER and the SCHLUCHT Pass to COLMAR.
5. The Plain of ALSACE which carries the Ill and RHINE rivers and leads north into Germany.

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B. Obstacles.

1. High VOSGES. This northeast - southwest tending range is the major obstacle to entrance to the Plain of ALSACE.

2. SAVERNE Gap. Although nominally an operational feature this narrow gap must be considered in view of the fact that it is easily defended from high, abrupt flanking ground.

3. In the BELFORT Gap area the main obstacles are:
   a. The heights of the High VOSGES on the north and northeast.
   b. The foothills of the JURA on the south.
   c. The RHONE - RHINE Canal, south of BELFORT, is an obstacle to north - south movement.
   d. Northwest of BELFORT on the approach to the Gap in the LUXEUIL - LURE - LeTHILLOT area and in the area just south of the BELFORT - ALTKIRCH highway lie numerous small lakes and hills which will restrict cross country movement to some extent.
   e. Rolling hill formations (800-1500 feet) tending SW from BELFORT.

4. In the Plain of ALSACE the main obstacles are:
   a. The RHINE River with its swift current, many dead channels, tributary streams and swampy bordering banks presents an obstacle to east-west movement. Annual summer rise is in May and August. In other months low water levels predominate which are frequently interrupted by floods of short duration and great heights in the months of December and January. The land varies from swamp to meadow land with heavy mud at high water periods. It is reported that in periods of low water, (generally winter months) the lowlands are passable in most places for motorized vehicles.
   b. The RHONE - RHINE Canal, which obstructs east-west traffic, west of the RHINE and canalizes north-south traffic against the RHINE river in a narrow strip north to STRASBOURG.
   c. The ILL River and its north-south tributaries willtend to restrict cross-country movement, particularly east-west.
   d. The MARNE - RHINE Canal will restrict movement north or east of the line SAVERNE - BRUMATH - STRASBOURG.

5. The Low VOSGES. On the north side of the SAVERNE Gap the Low VOSGES despite their lower elevations, present a more difficult obstacle than the High VOSGES as the Low VOSGES have steeper valleys and are more heavily forested. (In the past, armies have avoided the VOSGES Mountains.)

C. Tactical Effect of Terrain.

The normal avenue of approach to the Plain of ALSACE from the southwest or west is through the BELFORT Gap which carries good road, rail and water communications, room for deployment and the broadest front for entrance to the RHINE Valley.

Small areas northwest and southeast of BELFORT which are spotted with small lakes and hills will cause some restriction of movement cross country and certainly will place local movement, off the main roads, on winding circuituous routes. The hill country tending southwest from BELFORT ~~toward~~ the MONTBELIARD area will be troublesome mainly in proportion to the defenses which may have been prepared on it.

If international boundaries remain inviolate the right flank of a force advancing to the northeast could be almost continually anchored against the SWISS frontier. The left flank and center, however, after breaking defenses southwest of BELFORT would remain under direct observation, and probable fire, from the commanding heights to the north. Directly north of BELFORT lies the 4100 foot feature, BALLON d'ALSACE. More important however are the three features VIEIL ARMAND (HARTMANSWILLERKOPH) (3690'), GRAND BALLON (4681') and HOHNECK (4464') which are echeloned northwest from MULHOUSE. Most important is the VIEIL ARMAND, which commands a complete view of the Gap and the Plain, providing observation of BELFORT - ALTKIRCH - MULHOUSE - COLMAR, and most of the intervening roads, towns and terrain. STAUFEN across the RHINE can also be seen. FRIBURG and LORACH however are both screened

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by hills. If the enemy retains control of the VOSGES escarpment, any advance north through the RHINE Valley may be subjected to continuous left flank fire and, in the vicinity of COLMAR, be subjected to a cross fire from the escarpment on the west and the 1800 foot KAISERSTUHL feature on the east bank of the RHINE.

It would be advisable, therefore, to hold EPINAL, ST. DIE and the road leading to STRASBOURG through the SAALES Pass. This affords control of the main communications from the west, with the exception of the SAVERNE Gap, which, due to its narrow nature could probably be largely controlled by periodic air attack. This also allows the use of the REMIREMONT - COLMAR, REMIREMONT - MULHOUSE roads for attacks against the high positions (Grand BALLON, ARMAND, HOHNECK), for debouching into the Plain of ALSACE in the face of the KAISERSTUHL, or for turning the BELFORT positions, if required, by an advance on MULHOUSE.

The SAVERNE Gap at the northern end of the VOSGES lies approximately east-west and carries a secondary road as well as the major rail and water communications from NANCY to STRASBOURG. The Gap is extremely narrow, being about 200 yards wide for several kilometers of its length. It is closely walled by abrupt terrain rising over 1300 feet on the south and 1400 feet on the north. The main highway follows higher ground about two miles to the north and is subject to commanding flank terrain although not in defile as is the Gap itself. As an avenue of approach to the Plain of ALSACE it is severely restricted due to terrain and could be readily defended by a determined enemy.

Entrance to the Plain thru the SAALES and SCHLUCHT Passes are highly canalized, subject to high flanking terrain and cannot be considered as major avenues of approach.

Terrain in the Plain of ALSACE will allow for north-south movement but will somewhat restrict east-west movement. It will also tend to set traffic to the northeast due to the tributaries of the ILL and the general northeasterly lie of the land and major communications.

III. COMMUNICATIONS

A. Roads.

The road net is good in the entire area although somewhat constricted by terrain in the VOSGES. Excellent roads pass thru the BELFORT Gap connecting PARIS and BASLE, LYON and COLMAR. There are few alternate routes. Main roads in the Plain of ALSACE are straight, level and connect the cities of MULHOUSE, COLMAR, and STRASBOURG and large towns east and west. Main routes often bottleneck in narrow village streets. Sharp turns and steep gradients are common in the VOSGES and very winding roads are found in the lake areas near BELFORT. Secondary and local roads tend to be narrow and sometimes muddy. In wet weather they are generally unsuited for military traffic. They are often bordered by ditches or subankments and the crown on old cobbled roads is often so great that vehicles are required to travel at reduced speeds.

Several roads in this section were selected by the Germans, during their occupation of France, as "through routes" and were designated to receive 1st class maintenance for the use of continuous military traffic. It is not known to what extent these orders for 1st class maintenance have been carried out.

The majority of these roads have been constructed by widening and surfacing old water bound macadam roads. The foundation is probably good in most cases, but the strength of the surface (which may be merely a thin coat of tarred chippings) is more doubtful. In the neighborhood of large towns, many roads have been completely reconstructed in tar, macadam, or concrete. Nearly all roads are 6 meters (19' 6") or more in width and are suitable for 2 way traffic. Some bridges, particularly on secondary roads, cannot accommodate two way traffic however, and have a limited load capacity.

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BELFORT - EPINAL - NANCY Road. (118.5 miles, 191 km.)

This road follows a fairly easy course, skirts the southern and southwestern borders of the VOSGES to REMIREMONT then runs North along the MOSELLE Valley. The BELFORT - LURE section is the most hilly. The REMIREMONT - EPINAL - NANCY section is part of a German "through route". From this highway roads pass east through the VOSGES to the major cities in the Plain of ALSACE.

BELFORT - ALTKIRCH - BASLE. (41 miles - 65 km.)

This road does not pass directly into BASLE but turns northeast through the northern suburbs and crosses the RHINE and HUNINGEN. An alternate route passes through DELLE to the south and a second alternate, suitable for convoy traffic, passes northeast from BELFORT, to CERNAY, east through MULHOUSE and south to BASLE. The area has many small woods, mainly on hilltops. Cover is not always accessible near the road.

BELFORT - STRASBOURG. (85 miles - 137 km.)

The section from BELFORT to COLMAR (43.5 miles - 70 km.) comprises a part of what is believed to have been the German "through route" No. I from LYON - BESANCON - BELFORT - COLMAR to FREIBURG.

From BELFORT to CERNAY the road lies on a fairly straight, level stretch. Ground on either side is thickly populated with small industrial villages and partially covered by scattered woods. From CERNAY to STRASBOURG the road lies along a level cultivated plain where deployment should not be difficult. Cover however will be only fair in winter. Villages along this route will bottle neck on narrow streets.

VESOUL - REMIREMONT - ST. DIE - STRASBOURG.

This road is part of the German "through route" No. II from DIJON to STRASBOURG to LAUTERBURG. Formerly an important tourist road improved to carry two way bus traffic. Adjacent alternate roads are believed in very poor condition. Towns along this route are very old and streets extremely narrow. Gradients 1:25 and 1:14 will be encountered and considerable portions of this route are in defile.

B. Railroads.

Rail facilities through the BELFORT Gap are good with major lines converging on BELFORT from the west (Paris) and from the RHONE Valley and proceed northeast to MULHOUSE and to BASEL. In the Plain of ALSACE rail facilities are excellent with two level trunk lines extending the length of the plain. Routes have only slight gradients and no tunnels. There are, however, numerous short bridges. Connecting routes radiate about STRASBOURG and BASEL. Local lines are closely spaced north of STRASBOURG. Only one rail line (LUNEVILLE/EPINAL - ST. DIE - STRASBOURG) crosses the VOSGES although spur lines penetrate several of the valleys and a line from Paris reaches STRASBOURG by way of SARREBOURG and the SAVERNE Pass.

C. INLAND WATERWAYS.

Water communications in this area are excellent. The important RHONE - RHINE Canal passes about 5 miles South of BELFORT and continues northeast to MULHOUSE thence to STRASBOURG. In the Plain of ALSACE this canal has three short branches connecting the main canal with nearby towns (MONTBELIARD - BRISACH - COLMAR - HUNINGUE). The main canal is from 49 - 52' 6" broad at the surface, 33' at bottom, carries from 5' to 6 1/2' of water and in the ALSATIAN Plain is controlled by an extensive lock system.

The MARNE - RHINE Canal passes east from NANCY through the SAVERNE Gap and then south to STRASBOURG. This is classed as one of the most useful canals in the French inland waterway system and is capable of carrying heavy loads, pig iron and steel having been its major preacetime cargoes.

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IV. AIRFIELDS

A. HAGUENAU Airfield (Fighter Base)

Location : 1.75 miles SE HAGUENAU. About 18 miles N of STRASBOURG.

Dimensions : 1100 yards NW/SE; 1300 yards NE/SW.

Surface : Sandy with scanty grass. Reported serviceable all year except rough east end.

Runways : Two concrete in a 'V' pointing northeast.
1) ENE/WSW - 1100 yards
2) NNE/SSW - 1100 yards.

Facilities :
1) Fuel & oil - available.
2) Water - available.
3) Telephone and radio - two masted station among buildings near center NW boundary.
4) Hanger & workshops - 7 on NW boundary, 2 on N end of NE boundary.
5) Night landing - ENE/WSW runway has permanent illumination system.
6) Accommodations - large group administrative and barracks buildings in rear of hangers on NW boundary.
8) Access - RR spur STRASBOURG - HAGUENAU. Good road.

B. LUXEUIL Airfield (Medium Bomber Base)

Location : 2 miles SSW of LUXEUIL, south of main to VESOUL.

Dimensions : 1800 yards NE/SW; 800 yards NW/SE, rough rectangular.

Surface : Trim and sandy probably rough to SW and SE.

Runways : None

Facilities :
1) Fuel & oil - reported delivered at LUXEUIL station in rail tank cars and to airfield by truck.
2) Water - available
3) Telephone and radio - telephone only.
4) Hangers & Workshops -
   a. Northwest boundary - 3 large, 1 repair, 2 double hangers. Workshops adjacent.
   b. Southeast boundary - 1 small hanger.
5) Ammunition - stored at NE corner trasnported by light rail line 800 yards east.
6) Night landing - probably equipped for night flying.
7) Accommodations - large group administrative buildings and barracks behind hangers on NE boundary.
8) Access - road to LUXEUIL (R.N. 57) forms NW boundary. LURE - LUXEUIL railroad passes near NE corner of the airfield.

C. STRASBOURG - ENTZHEIM (Fighter Base)

Location : Immediately N of ENTZHEIM. North boundary on railroad. 5.25 miles WSW of STRASBOURG.

Dimensions : 1150 yards E/W; 1050 yards NNW/SSE. (Possibly extended to 1340).

Surface : Clay soil. Likely to be soft after heavy rain. Ground hard and pebbly in some places.

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Runways : None

Facilities : 1) Fuel & oil - refueling in front of hangers. Presumably underground storage.
2) Telephone and radio: meteorological office.
3) Hangers & Workshops - 2 medium hangers and workshops grouped in NW corner.
4) Night landing - Permanent flare path E/W across landing area. Boundary lights, beacon, blind landing installations.
5) Accommodations - buildings in NW corner and on NE outskirts.
6) Access - road communications good. ENTZHEIM railroad station at NW corner.

D. STRASBOURG - NEUHOF Airfield (Medium Bombers Base)

Location : 1.25 miles NNE of NEUHOF. 2.50 miles SE of STRASBOURG. River RHINE 1.25 miles to east.

Dimensions : 1200 yards NW/SSE; 1080 yards ENE/WSW. Extension at south may be serviceable. If so about 2000 yard run is available N/S.

Surface : Good all seasons.

Runways : None

Facilities : 1) Fuel & oil - stored in drums (by French) in special building on the east side.
2) Water - available
3) Telephone & radio - meteorological office. Radio in Fort No. 14, STRASBOURG.
4) Hangers and workshops - 4 large and 2 very long hangers on east side.
5) Night landing - beacon. Obstruction lights on tall pylons to north of field.
6) Accommodations - Ample barracks on west side of MUNDOLSHEIM - NEUHOF road.
7) Access - road communications excellent. Railroad stations at NEUHOF and STRASBOURG.

E. LURE - MALBOUHANS Landing Ground (Fighter Base)

Location : South of the MALBOUHANS - LA NEUVELLE road, 3.75 miles NE of LURE.

Dimensions : 1400 yards NNE/SSW; 1500 yards E/W.

Surface : Probably obstructed

Runways : None

Facilities : 1) Fuel & oil - tanks reported on N boundary.
2) Hanger & workshops - a shed on NW corner.
3) Ammunition - ample opportunity for storage in woods to south.
4) Night landing - none
5) Accommodations - a few small huts on south boundary and accommodations in the village.
6) Access - Road: main road to LURE connected to landing ground by secondary road.
Railroad: railhead at LURE.

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F. MULHOUSE Landing Ground (Fighter Base)

Location : 1.25 miles NE of HABSHEIM. 4.50 miles east of MULHOUSE.

Dimensions : 1200 yards NNW/SSE; 1000 yards ENE/WSW. Narrow strip on other side of road forming East boundary is probably available for use and is 1430 yards NNW/SSE.

Surface : Sand gravel. Excellent in all seasons. Depressions on landing ground liable to be dangerous.

Runways : None

Facilities : 1) Fuel & oil - refueling points at NE.
2) Accommodations - extensive group of barrack huts.
3) Access - Road: secondary road to HABSHEIM and RIXHEIM (3/4 mile from NW corner.
Railroad: two stations close to west boundary.

G. NANCY - AZELOT Landing Ground (Fighter Base)

Location : Immediately NE of AZELOT. 8 miles SSE of NANCY.

Dimensions : 1200 yards NW/SE; 1000 yards NE/SW.

Surface : Reported obstructed by wooden posts (unconfirmed)

Runways : None

Facilities : 1) Fuel & oil - probably none
2) Hanger & workshops - none
3) Ammunition - none
4) Night landing - none
5) Accommodations - only in local village.
6) Access - road: good communications with NANCY
railroad: most convenient VARANGEVILLE about 4 miles NE.

H. NANCY - MALZEVILLE Landing Ground (Fighter Base)

Location : 2 1/2 miles NNE center of NANCY. About midway between MALZEVILLE and AGINCOURT.

Dimensions : 1150 yards NW/SE; 800 yards (possibly 1150) NE/SW. 'L' shaped.

Surface : Clay - heavy after rain. No obstructions or activity evident.

Runways : None

Facilities : 1) Fuel & oil - refueling points on NE and SE boundaries.
2) Water - available.
3) Hangers & workshops - none
4) Accommodation - none
5) Access - road: good connections with NANCY
railroad - at NANCY.

I. SAVERNE Landing Ground (Fighter Base)

Location : 3 miles NNE of SAVERNE, 1 1/4 miles SSE of STEINBOURG.

Dimensions : 660 yards NEW/SSE; 500 yards WSW/ENE. Possibly extended to 1030 by 635 yards.

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Surface : Grass, undulating. Parts become marshy after rain.

Runways : None

Facilities : 1 small hanger.
Access - road: main SAVERNE - STRASBOURG road passes near S. end.
railroad; station at STEINBOURG linked by secondary road.

J. SARREGUEMINES (Emergency Landing Field)

Location : 2 1/4 miles NE of SARREGUEMINES.

Dimensions : 930 yards NE/SW; 870 yards NW/SE.

Surface : Grass on cly subsoil. Reported dangerous after rain.

Facilities : Hangers & workshops - 1 hanger on SE boundary. Formerly a French Military Airfield. No record of use by G.A.F.

K. SARREBOURG (Emergency Landing Ground)

Location : 3/4 mile SW of BUHL and 1 1/4 mile SSE of SARREBOURG.

Dimensions : 870 yards NE/SW; 550 yards NW/SE.

Surface : Grass on clay subsoil.

Facilities : Hangers & workshops - 1 hanger on east boundary. Former French Military Airfield. No record of use by G.A.F.

V. TOWNS

ALTKIRCH, 3,650 inhabitants, is located on the right bank of the ILL River.

BACCARAT, 3,598 inhabitants, is located on the MEURTHE River in a valley between two wooded slopes. Known for its crystal industry.

BELFORT, 45,325 inhabitants, is built on an elevation of about 1100 feet. It is a historic fortress town and manufactures heavy electrical equipment, locomotive parts and textiles, and THANN BITSCHWILLER, N.W. MULHOUSE manufactures explosives and magnesium.

CERNAY, 6,775 inhabitants, is an industrial city on the THUR River. It was largely destroyed in World War I and is the southern terminus of the "Route des Cretes".

COLMAR, 47,488 inhabitants, is the captial of Haut-Rhine Department and is situated on the LAUCH River. Fifteen kilometers west is LES TRAIS EPIS, a summer resort near TURCKHEIM. It is located on a 2200 foot grante plateau which affords an excellent view of the VOSGES, JURA, the RHINE Plain and the BLACK FOREST.

ST. DIE, 20,315 inhabitants, is situated on MEURTHE River in a valley surrounded by wooded plateaux. Textiles, paper mills and foundries are main industries.

EPINAL, 27,708 inhabitants, lies at an elvation of about 1000 feet on the banks of the MOSELLE River which passes through the town. Main industries are printing, cotton weaving, embroidery and machine made laces.

LUNEVILLE, 23,865 inhabitants, is located at the juncture of the MEURTHE and BLETTE Rivers. It is a communications center and has important locomotive repair shops as well as manufacturing wines, textiles and foodstuffs.

Mulhouse, 96,897 inhabitants, is an important river port on the ILL River and RHONE-RHINE Canal with industries of weaving, machinery and chemicals. Southwest of the city is the HARTMANNWALD hedge forest where the BELVEDERE Tower (35') stands on an elevation of about 1000 feet and affords excellent observation of the surrounding terrain. 16 km southeast is the KEMBS Dam.

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NANCY, 121,301 inhabitants, is located on the left bank of the MEURTHE River and the MARNE-RHINE Canal. It is the capital of MEURTHE-et-MOSELLE, seat of a bishopric, a university, a court of appeals and headquarters of the 20th Military Region (Fr.). It is an important medical center and is famed for its art museums. Has iron and steel mills, salt mines and chemical plants.

STRASBOURG, 192,000 inhabitants, is the capital of the BAS-RHINE Department, is located near the RHINE River, and is communications and market center. The ILL River crosses the city from southwest to northeast in two branches which surround the old city. Upstream the ILL River junctions with the RHONE-RHINE canal and the BAUCHE River and its canal. Downstream the MARNE-RHINE Canal empties into the ILL.

The port of STRASBOURG stretches from east to northeast between the RHINE and small RHINE opposite the KEHL bridge. In peacetime it was rated as the 3rd port of France with an annual capacity of nearly 10,000,000 tons. Contains large factories for producing machinery, locomotives, electrical equipment, flour, textiles and chemicals. There are also ship yards.

VI. CLIMATE

General

The year is divided into the conventional seasons, however, summer lasts until the middle of September, and, at levels of 3000 ft. and up, November and March must be regarded as winter months.

Winter (December, January, February) is mild in comparison with places farther east in Central EUROPE. In the northern part of the region, mild, unsettled weather alternates with cold, anticyclonic spells, which are sometimes persistent. Cloudy skies and poor visibility are current, especially in cold anticyclonic weather, when fog develops. Wet, stormy weather may be seen at any time, but late December and early January are usually the worst periods. Southward, anticyclonic conditions predominate with occasional interruptions, particularly in late January and February. Precipitation is mainly in the form of snow above 3,500 feet, and the higher mountain passes become blocked.

Spring. Throughout March, April and May, conditions improve in the north, precipitation is relatively light, and skies are more broken. In the south, spring precipitation increases, particularly in the ALPS. Snow melts, mountain streams are in flood, and road conditions are likely to be bad.

Summer (June, July, August) is generally quiet, with good visibility and partly clouded skies. Rain falls mainly in showers. Day temperatures are high in anticyclonic weather. Southerly winds develop hot, oppressive weather and thunderstorms.

Autumn. After September, conditions deteriorate. Rainfall is high in October over most of the area, flying conditions deteriorate quickly, and by November the cloudy skies and unsettled weather of early winter prevail.

INFLUENCE OF TOPOGRAPHY.

Mountain valleys canalize the winds. At BELFORT, winds blow mainly from West or East through the gap between the VOSGES and the JURA mountains. The valley bottoms, near high mountains, have low night temperatures and a tendency to morning fog. Weather in the mountains is local, and statistics referring to any particular locality do not represent conditions in a neighboring one.

Above moderate heights, winters, particularly in the VOSGES, may be long and hard, with large and sudden changes in temperature. At all seasons, bad weather is more persistent over the mountains than in areas 300-400 miles north, because there is a decided tendency for "fronts" to slow up as they approach the ALPS barrier; frequently, a "front" becomes

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stationary along the line of the ALPS, creating a broad belt of rain and cloud over the foothills, which lasts for a day or two.

Continuous rain, associated with fronts, often held up by mountain ranges, is not likely in autumn and winter.

SNOW

At lower levels, snow does not lie for long in normal winter; even in mid-winter months, the number of days with snow covered ground is smaller than the number with falling snow. Severe winters, however, may increase this. On the mountains, at levels from 2000 feet up, there is snow cover during part or all of the winter, which, however, may be intermittent at lower levels depending on the severity of the season.

In the VOSGES mountains, roads are liable to be blocked intermittently over their summits, for a period of 3 to 4 months. One or two sections, including the Route des CRETES, are completely snow blocked for 4 or 5 months. Intermittent blocking of one or two days may be expected on the higher stretches after heavy snowfall. In passes over 4000 ft., complete blocking for about 4 months is likely.

Periods during which certain roads are usually snow blocked are:

Pass	Height	Blocked	Route
BONHOMME	3114 ft.	Intermittent Dec.-March	ST. DIE - COLMAR
ROUTES DES CRETES	2950 ft. 4450 ft.	Nov.- late May	BONHOMME PASS - SCHLUCHT PASS - CERNAY
SCHLUCHT	3737 ft.	Late Nov. - March	GERARDMER - COLMAR
BRAMONT	3173 ft.	Intermittent Dec.-Feb.	GERARDMER - THANN
BALLON DE ALSACE	3685 ft.	Late Nov.-Early April	BELFORT - GERARDMER
ROUTE JOFFRE	2428 ft.	Dec.- March	MASEVAUX - THANN.

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RAMBERVILLERS

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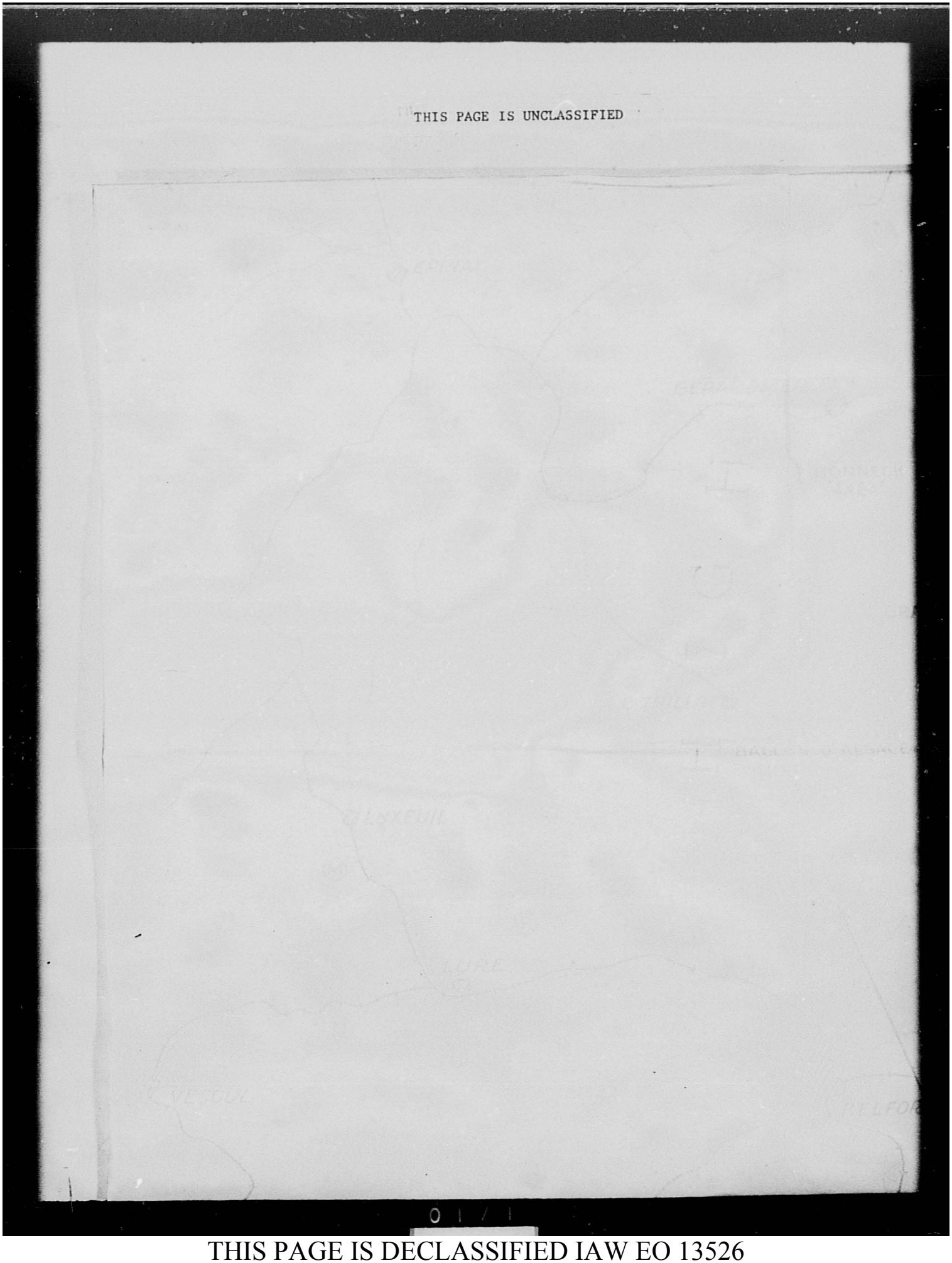
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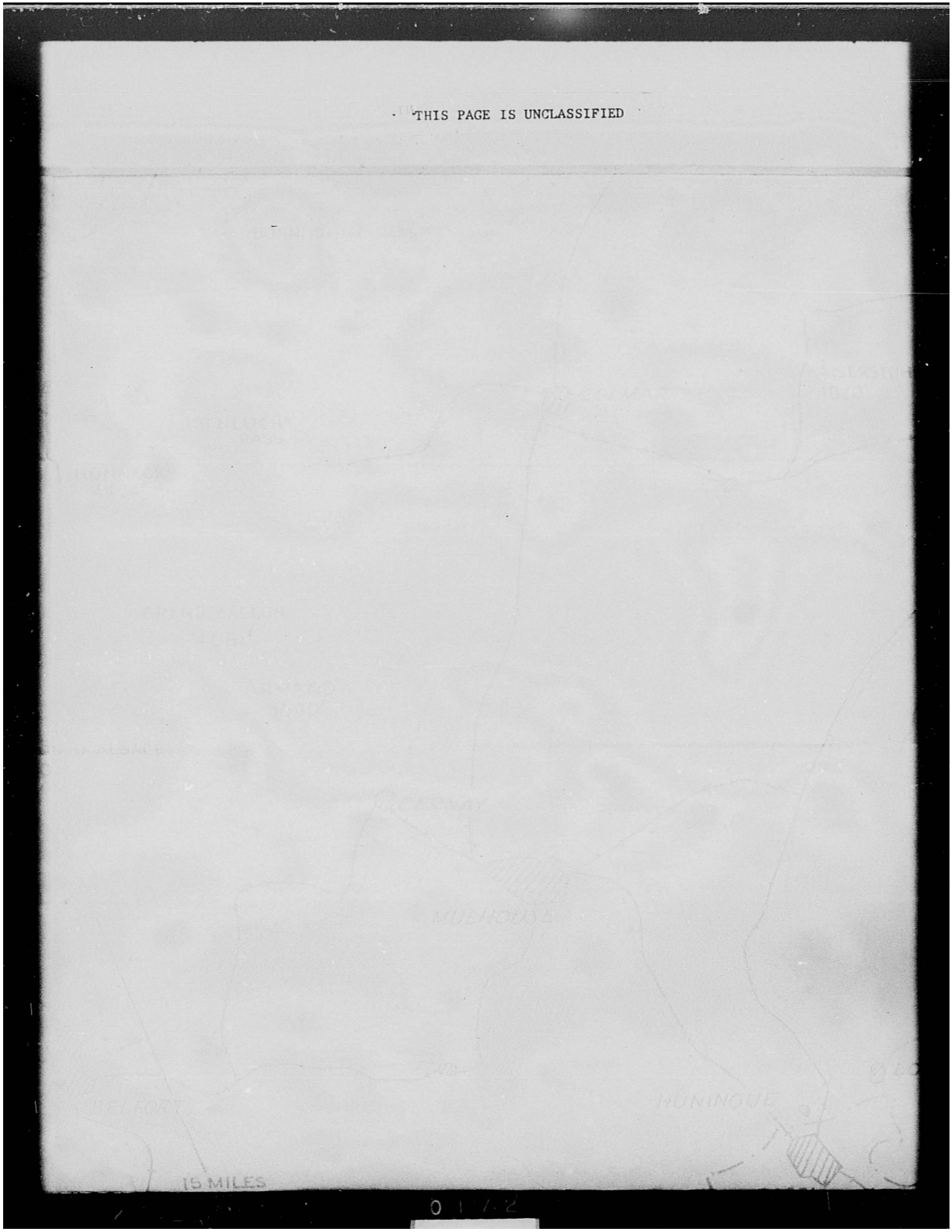
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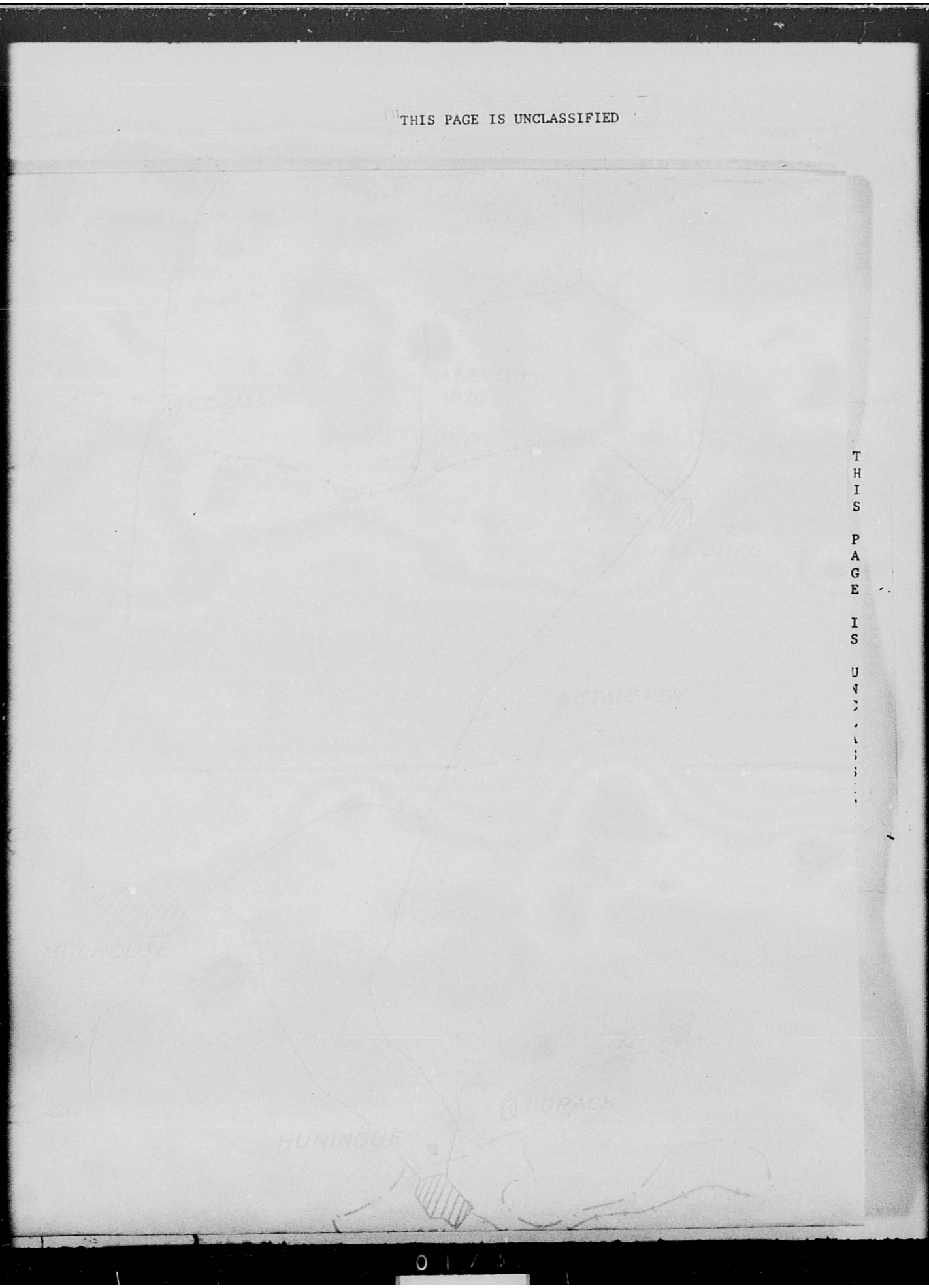
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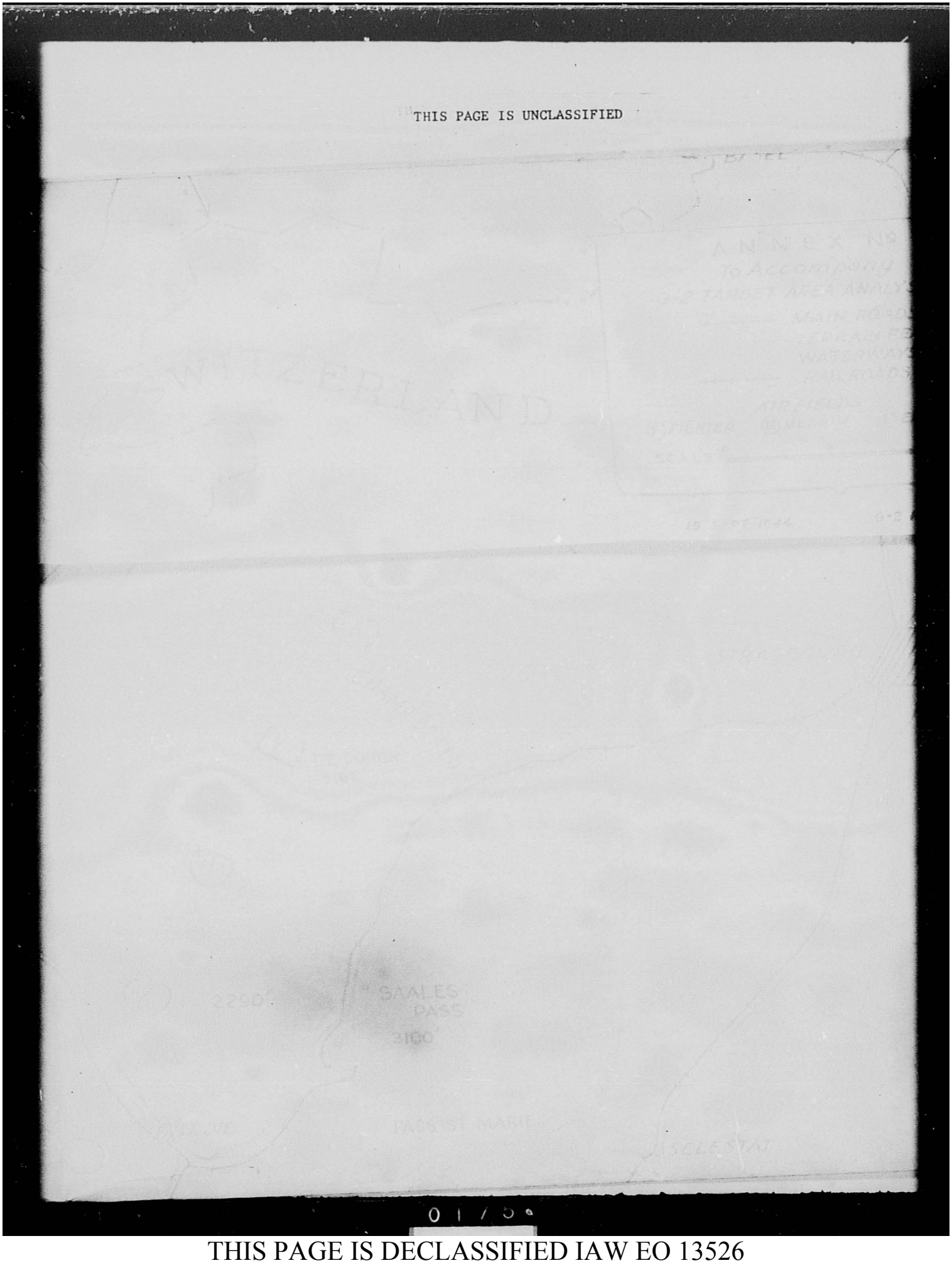
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Ar. XII TAC
A PO 339
w/c Wiseman
Lt. Col. Adams
(Please return for file)

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HEADQUARTERS SEVENTH ARMY
Office of the A. C. of S., G-2
APO 758 US ARMY

Copy No. 41

Ref. No. X-71

G-2 REPORT

From: 120800B Sept 44
To : 130800B Sept 44

Hq. Seventh Army
In the Field
131200B September 1944

No. 29.

Map: GSGS 4249, EUROPE 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and forward elements - Annex No. 1, Overlay.
   b. Defensive Organization.
      (1) PW's from the 37th Inf. Div. stated that the CP's of the component regts. were as follows:
          80th Inf. Regt. - BREIL (Vn-8004)
          253rd Inf. Regt. - SAN REMO - VENTIMIGLIA (S-8787).
          107th Inf. Regt. - TORINO. (TURIN)
      (2) PW's stated that the CP of the 200th P.G. Regt. of the 90th P.G. Div. is at LARCHE. (Vn-3366).
      (3) According to PW's the CP of the 91st Flieger Regt. is at HERIMONCOURT (Wa-3571), the CP of the 71st Flieger Regt. at AUDINCOURT (Wa-3276), and the CP of the 63rd Flieger Regt. located at VALENTIGNEY (Wa-3274).
   c. Units in Contact.
      (1) Identifications.
          1st Flieger Trng. Div.
          Elements identified vic GOUX (P-2775) on 10 Sept.
          11th Pz. Div.
              110th P.G. Regt. vic PONT DE ROIDE (P-3475).
          90th P.G. Div.
              200th P.G. Regt. - elements identified vic COL DE LARCHE.
              190th Recn. Bn. - elements identified ST. MICHEL DE MAURIENNE (K-2532) area.
          196th Sicherungs Regt. - vic AUTUN (N-4919).
          Elements: 716th Inf. Div.)
                    " 338th Battle Group)
                    " 302 GAF Sig. Regt.) - identified in the GRAY - VESOUL sector.
                    " 607 AA Bn.)
                    " 852nd AA Bn.)
                    " 932nd AA Bn.)
          198th Inf. Div.
              305th Inf. Regt.) Vic O-9785. PW stated that the
              308th Inf. Regt.) 305th Regt. has been reduced to 200 men.
          Bauer Battle Group - identified vic AUTUN (N-4919).
              Comment: Col. BAUER commanded the 1182nd C.A. Regt. previously at ARCACHON. Battle Gp included Naval AA and GAF supply troops from BORDEAUX. PW's stated the Group left BORDEAUX on the 20th of August.
          634th Guard Regt. - vic RIOZ (O-8176) on 10 Sept.
          1000th Sicherungs Regt. (Mtz)
              2nd Bn. - elements identified vic P-0383.
          602nd Mobile Bn. - vic GEVREY (N-9950)
          684th Marine Arty Bn. - vic O-5772.
          1007th Landesschutzen Bn. - vic P-0288.
      (2) Organization and Strength.
          (a) 159th Res. Div.
              (i) PW stated that the Div. has the 1059th Sig. Bn. and 1059th Fusilier Bn. and that the latter stayed behind in the GIRONDE estuary.
              (ii) Captured document dated 2 Sept. indicates the existence of a Replacement Bn. in this Div. numbered 1059.

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(iii) According to statements of 2 reliable officers PW's, an order for reorganization was received on 10 Sept by the 159 Res. Div. to be complied with on 12 Sept.
The reorganized division would contain:
a. Regt. "Hoolzel" (consisting of its own organic battalions 36 and 181, plus remnants of the battalion of the dissolved 9 and 251 Res. Regts.).
b. Regt. "Giess" (previously the 197 Sicherungs Regt. stationed vic BORDEAUX and falesly reported as Res. Regt. which became part of the 159 Res. Div. on 8 Sept.)
c. DEHNER Battle Group (unit made up of former HQ and auxillary personnel).
d. 507 AA Bn.
The fate of the Artillery unit of the divison is not known, but PW heard that all guns were destroyed or left behind in the area south of BORDEAUX.

(b) 198th Inf. Div.
A document dated 3 Sept. indicates that Col. SCHIDL is the new C.O. of this organization.

(c) C in C West.
A captured document signed by Field Marshal VAN KLUGE states that command of the area C in C West and Army Group B have been turned over to Field Marshal MODEL.

(d) Strength of 63rd, 71st and 91st Flieger Regiments.
PW's stated that the strength of each of these regiments is now equal to that of one bn.

(e) FREIWILLIGE - STAMM Div. (Russian Volunteer Cadre Div.)
Captured documents and a map identified the 5th Cossack Cadre Regt. as part of this unit. Until mid August the Regts. activated by this Div. included the 5th Kuban Regt. and 454th East Mounted Regt.

(f) 1021st and 1022nd Sicherungs Bn.
A captured mpa indicates that these are Sicherungs Bns. and not Guard units as previously reported.

(g) (i) IV G.A.F. Corps.
Captured douments reveal that this unit now includes the 198th Inf. Div., the 338th Inf. Div. and 159th Res. Div., and has the mission of protecting the Southern flank of the main enemy positions. Headquarters of the Corps is at LURE. (K-1206) Sector: RIOZ-VERS.

(ii) LXIV Corps.
Captured documents reveal this Corps to be N of IV. G.A.F. Corps and to include three battle groups: SCHWERIN (189th Div.), RICHTER (716th Div.) and BRODOWSKI (Gen BRODOWSKI; was administration General at CLERMONT-FERRAND) south to north. Headquarters of the Corps is at LUXEUIL (K-0221). Sector: ANGERS-PLOMBIERE.

(iii) LXVI Corps.
Captured documents show this Corps to be N of LXIV Corps. Subordinate units unknown but probably 1C Inf Div.

(iv) LXXXV Corps.
Captured documents reveal that this Corps has been out of action since 7 Sept. and is probably in BELFORT.

(h) 11th Pz. Div.
The French report that the infantry of this division is being relieved by the 1st Flieger Ausbildungs Div opposing 3 D.I.A. Strength of 1 Flieger Training Div equivalent to 3 Infantry Battalions. Some twenty tanks and the 119th Arty Regt. are to remain in line while

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the infantry assembles behind the line MONTBELLARD - DELLE. (Ws-1579).

d. Supply and Evacuation Establishments.
T.C/R at 1830B observed a hospital and 20 dispersed M/T with trailers at Z-7374.

2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.
The enemy continued refusing his right flank as he executes his pivoting movement north and northeast towards the VOSGES MTNS., apparently hinged on the L'ISLE (P-1981) area. After the capture of VESOUL, U.S. troops encountered stiff resistance northeast of the town but only slight resistance northwest of it. Between VESOUL and L'ISLE heavy resistance was also met, including several local counterattacks. Strong opposition continued southwest of MONTBELLARD (P-3689). In the ALPINE Pass sector strong enemy reaction to the French advance in the URSUYE valley in the vic of ST PAUL (P-5055) was experienced, and in the 1st ABTF sector, an enemy counterattack was repulsed at Ws-790895. West of the SAONE river, the French continued northward with little or no contact. The enemy again risked large daylight rail movements both east and west in the BELFORT-MULHOUSE-FREIBURG-STRASSBURG area.

b. Operations of Component Elements.

(1) Anticircraft Artillery.
1208308: Scant, inaccurate, heavy and light flak BELFORT; moderate, inaccurate, heavy and light flak Ww-7120.
1215008: Scant, inaccurate, light flak BELFORT.
1217208: Scant, inaccurate, heavy flak NE of BELFORT.
1218308: Scant, inaccurate, heavy flak MULHOUSE.

(2) Armored Forces.
T.C/R at 1217208 observed four dummy tanks at Ww-5628.

(3) Artillery.
1st S.S.F. received scattered artillery fire on their right sector during the morning 12 Sept.

(4) G-2.
Information from Twenty-first Army Group states that garage dumps reported in general area METZ are still in German possession and that 3rd US Army reports 20,000 tons of French phosgene gas in artillery shells and bulk clorpicrein at MARS-LA-TOUR (14 miles West of METZ). There was evidence that some of the dumps had been previously removed to Germany and that an unsuccessful attempt had been made to destroy the remainder.

(5) Infantry.
(a) VI Corps.
Heavy rearguard actions delayed our advance to the E and NE in the VESOUL area. In the 36th Div. sector stiff resistance was encountered on the outskirts of the town. No contact was made along the SAONE river flank from GRAY (O-4576) to the stream junction at LE DUNGEON (J-7701). Enemy resistance on the hill at O-6899 was overcome and a bridge to the N at J-7805 was captured intact. The U.S. 3rd Div. continued to make slow progress S of the town against very stubborn resistance. Many roadblocks of felled trees covered by small arms, mg and artillery fire were encountered. In the 45th Div. sector, stiff resistance was also offered by the enemy. One enemy counterattack was made in the vic of BONNAL (P-0286) and repulsed.

During the afternoon the enemy continued strongly to resist U.S. advances to the N between VESOUL and L'ISLE (P-1981). Resistance was strongest in the center and on the E flank of the Corps. In the 3rd Div. sector U.S. units advanced Northward E of VESOUL, against strong resistance. The enemy was still reported to hold a roadblock at O-9689 on the road approaching VESOUL from the SE.

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The 36th Div. captured VESOUL and mopped up resistance in the town. As they advanced NW of the town they were counterattacked at PONT SUR SAONE (J-7805), but successfully repulsed the enemy afterwards. The 45th Div. experienced heavy resistance in the vic of L'ISLE and local counterattacks along the remainder of the front.

(b) 1st A/B Task Force.

1st A/B Task Force reported an enemy counterattack at Vs-790895 and scattered contact along the remainder of the sector.

(c) French Army "B".

I Corps.

Enemy defense on the approaches to MONTBELIARD (P-3688) continued. In the Alpine passes the enemy reacted strongly to 2 D.I.M's approach to ST. PAUL (P-5055) in the UBAYE valley.

During the afternoon, light enemy counterattacks were made along the DOUBS river W of PONT DE ROIDE (P-3474), and small pockets of enemy resistance were encountered N and NW of the town. The enemy MLR was reported to run from MT BALLON D'ALSACE (Wv-3314) - BELFORT - DELLE (Wa-4579).

II Corps.

German troops between DECIZE (-8604) and CHAZELLE BENOIT (Z-4775) have agreed to surrender to the American general commanding TOURS. These troops are believed to amount to approx 18,000, and are under the command of General ELSTER. Three generals and one admiral are included. The German general in command thinks that a few groups will not surrender and will try to rejoin the German lines.

During the afternoon, French elements advanced rapidly Northwestward with little or no contact. Ren to RECEY (H-8911) and LONGEAU (J-2312) failed to locate any enemy resistance. However, slight contact was made vic CHAMPLITTE (O-3995) and at CYRIERES (O-4387).

c. Miscellaneous.

(1) Movements.

Despite constant air attack by our fighters, the enemy continued to risk large daylight rail movement in both directions in the BELFORT - MULHOUSE - FREIBURG - STRASSBURG area in his haste to reinforce the BELFORT area and to build up the VOSGE passes and Siegfried Line positions. Total claims for the day indicated the biggest locomotive bag of the campaign with 32 locomotives claimed destroyed, 7 locomotives damaged, 65 RR cars destroyed, and 48 RR cars damaged. Casualties were inflicted at MUHLBERG (R-0666). At W-0847, one locomotive was destroyed and ten cars with artillery damaged. Four different trains attacked were moving toward MULHOUSE and one other train was moving from MULHOUSE to BELFORT.

Fifty barges were reported in the canal from NEU BREISACH (V-8535) to MULHOUSE at 1815B. A 125 foot boat was reported stationary along W bank of RHINE, one mile N of the NEUENBURG bridge (V-8713).

Very little movement was reported on enemy road nets opposite French II Corps for the fourth consecutive day. In general, other road nets produced light dispersed traffic. The BELFORT - MULHOUSE - FREIBURG road seemed to be the busiest road. Scattered traffic was reported on the BELFORT radial roads throughout the day with the foot troops and eight plus vehicles observed moving from MULHOUSE towards BELFORT at 1630B. Two missions over REMIREMONT (K-1743) reported NMS but one mission at 1615B observed fifty troops and 10 plus M/T in town. The largest movement during the day was 50 plus M/T and several M/D vehicles moving E into FREIBURG from W-0431 and then heading N at 1815B. At 1630B, 40 M/D M/T were reported moving into LUXEUIL (K-0221) from the SW indicating that our advance had forced rearward displacement of enemy elements.

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Airplane was observed taking off from the airfield at FREIBURG where 23 planes were observed yesterday.

Two enemy columns were observed by U.S. Air OP's during the morning 12 Sept. One was moving N from J-8306 to J-8214, and the other from J-7902 to J-8009.

3. MISCELLANEOUS

a. Evacuation of Civilians.

A French report states that all foreigners in the RHINELAND, S.A.R and ALSACE are being evacuated to Germany.

b. Enemy's knowledge of our Situation.

A platoon of the N.I.C.M. (Rcn sqdn) of the 9 D.I.C. was destroyed at VILLERS SOUS ECOT (P-2978) by tiger and panther tanks. PW's were captured by the Germans who must as a result know of the presence of the 9th D.I.C. in that area.

c. Weather Forecast.

14 September 1944: Cloudy throughout day with light rain. Visibility 4 miles in morning due to fog and light rain. Surface wind S, 6 MPH - 10 miles in afternoon.

15 September 1944: Partly cloudy throughout day, no rain. Visibility 3 miles in morning due to fog; 12 miles after 1000B. Wind westerly, 8 MPH.

4. ENEMY CAPABILITIES.

No Change.

s/ William W. Quinn
for WILLIAM W. QUINN
Colonel, G. S. C., AC
A. C. of S., G-2

Encl: Annex No. 1, Overlay

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G-2, XII TAC
JA
Col Adam
W C Wiseman
/fcj

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HEADQUARTERS SEVENTH ARMY
Office of the A. C. of S., G-2
APO 758 US ARMY

Copy No. 37

Ref. No. X-64

G-2 REPORT

From: 110800B Sept 44
To : 120800B Sept 44

Hq. Seventh Army
In the Field
121200B September 1944

No. 28.

Map : GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.

a. Enemy front line and forward elements - Annex No. 1, Overlay.

b. Defensive Organization.

(1) FFI reports stated that the enemy were digging in E of VILLERSEXEL (P-0891) and would make an attempt to stand there.

(2) PW's from the 80th Regiment of the 34th Division stated that the C.P. of the 80th Regt. was at BREIL (Vn-8004).

c. Units in Contact.

(1) Identifications.

11th P.G. Div.
111th P.G. Regt.
11th Co. - identified vic P-0678.

34th Inf. Div.
80th Regt.
5th Co. - identified at S-790907.

157th Res. Div.
1st Res. Mtn. Regt.
100th Res. Mtn. Bn. - identified at COL PETIT ST. BERNARD (Z-4600).

159th Res. Div.
1059th Res. Sig. Bn. - Identified vic VORAY (O-7866).
15th Res. Engr. Bn. - Identified vic LUXIOL (P-0272).

198th Inf. Div. - elements identified vic QUENOCHE (O-8381).

137th Mtn. Ersatz Regt.) - identified at COL PETIT ST.
88th Mtn. Bn.) BERNARD (Z-4600).

197th Res. Regt. (?) - identified N of TRESILLEY (O-7879).

1000th Sicherungs Regt. (Mot)
6th Co.)
7th Co.) - identified in the vic SOYE (P-1480).

102lst Guard Regt.
3d Co. - identified vic FONTENELLE (P-0880).

608th Mobile Bn.)
8th Schiffstamm Bn.) - elements identified vic LUXIOL (P-0272).

657th Naval Arty Bn. - identified vic VORAY (O-7866).

(2) Organization and Strength.

(a) 159th Res. Div.

This Div. has three regiments: 9th, 251st Res. and HOELZEL regiment.

HOELZEL Regt was originally formed to replace 15th Res. Regt. which was incorporated into the 189th Div.

(b) Units Defending the Siegfried Line.

French reports state that "WEHRKREIS" V, VI, and XII, had been totally mobilized for the defense of the Siegfried Line. Units manning the fortifications will be reinforced by men of ERSATZ RESERVE II (untrained, physically unfit men under 35) and auxiliary forces.

(c) C in C, Northeast France.

A captured document dated 3 Sept., indicates that Genlt. HEDERICH holds this position.

(d) Army Group "G".

Captured document signed by Gen. BLASKOWITZ states that Army Group G was transferred to GERARDMER (V-3641) on 3 Sept.

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2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.

The enemy withdrawal to the north along the VI Corps front continued. He attempted delaying actions on the approaches to both VESOUL (O-8898) and VILLERSEXEL (P-0892), and there were indications that he may make a stand in the vic of VILLERSEXEL. Further east he continued his defense of the area south of MONTBELLARD (P-3688). Increased artillery reaction was noted in this sector. In the Riviera sector 1st A/B Task Force reported identifying elements of 34th Inf. Div. French units west of the SAONE occupied DIJON and pushed on north of the town against only slight resistance. Heavy train movement east between BELFORT - MULHOUSE - FRIEBURG was again observed. Trains moving west towards BELFORT transporting vehicles were also observed suggesting reinforcement of that area. Very little M/T movement was seen on roadnets N and W of French II Corps and the American 36th Division.

b. Operations of Component Elements.

(1) Antiaircraft Artillery.

110830B: Moderate, inaccurate, light flak Wa-4494.
111500B: Scant, inaccurate, light flak K-1209.
111530B: Moderate, accurate, heavy and light flak MULHOUSE area.
111630B: Scant, accurate, heavy and light flak Z-7544.

(2) Artillery.

(a) Enemy artillery fire fell at P-2082 at 0930B.
(b) There was a noticeable increase in enemy artillery fire in the 3 D.I.A. sector on the Army right flank.

(3) Aviation.

(a) At 080730B, 2 ME-109's were engaged by U.S. AA as they approached vic P-0050 on a low level recn mission. Two other A/C, identified as FW-190's, were observed over O-8957 at 080730B flying SE at a 50 ft. altitude. Tracers were observed hitting one plane which was probably destroyed. At 080745B, 2 ME-109's hedgehopping at 100-150 ft. flew S from BAUME (P-0469) towards ETALANS (O-9846) and then circled back along the valley floor. The A/C were apparently on a recn mission as no bombing or strafing was reported. A single JU-88 flew over the U.S. 45th Div, area between 25,000 - 30,000 feet at 080900B. 3 ME-109's strafed the bridge at O-786555 at 081000B and knocked out one truck. At 081902B, 2 ME-109's with belly tanks strafed vic P-090639 from an altitude of 75 ft. One A/C was damaged by AA.

(b) At 091050B, 4 EA/C drove off a U.S. cub plane vic Vs-775955.
(c) TAC/R at 111020B observed 23 A/C on an airfield at FREIBURG (Ww-0834). Pilot reported the planes did not look like dummies.

(4) Infantry.

(a) French Army "B".

I Corps.

There was no change in the situation in the Alpine passes during the morning 11 Sept. SW of MONTBELLARD (P-3688) an increase in enemy artillery activity was noticed.

II Corps.

During the morning French troops occupied the town DIJON. Remaining opposition in AUTUN (N-4913) was mopped up and 3200 prisoners were reported captured. Large enemy forces were reported to be still W of DIJON.

little or no opposition was encountered by French forces who advanced to ST. SEINE L'ABBAYE (N-8574) and ORVILLE (O-1688). Liaison officers from the 1st Div. Blindee contacted elements of the 3rd U.S. Army vic SOMBERNON (N-7959) night 10/11 September.

(b) VI Corps.

During the morning the enemy continued to resist U.S. advances towards VESOUL (O-8898) and VILLERSEXEL (P-0892). Stiff opposition was encountered respectively by the 3rd and 45th Divisions on the main road approaching VESOUL and VILLERSEXEL from the S. The 36th Div. advancing W of VESOUL began to develop stiff opposition to the SW of the town. Elements of the 198th Div. were encountered offering resistance on the

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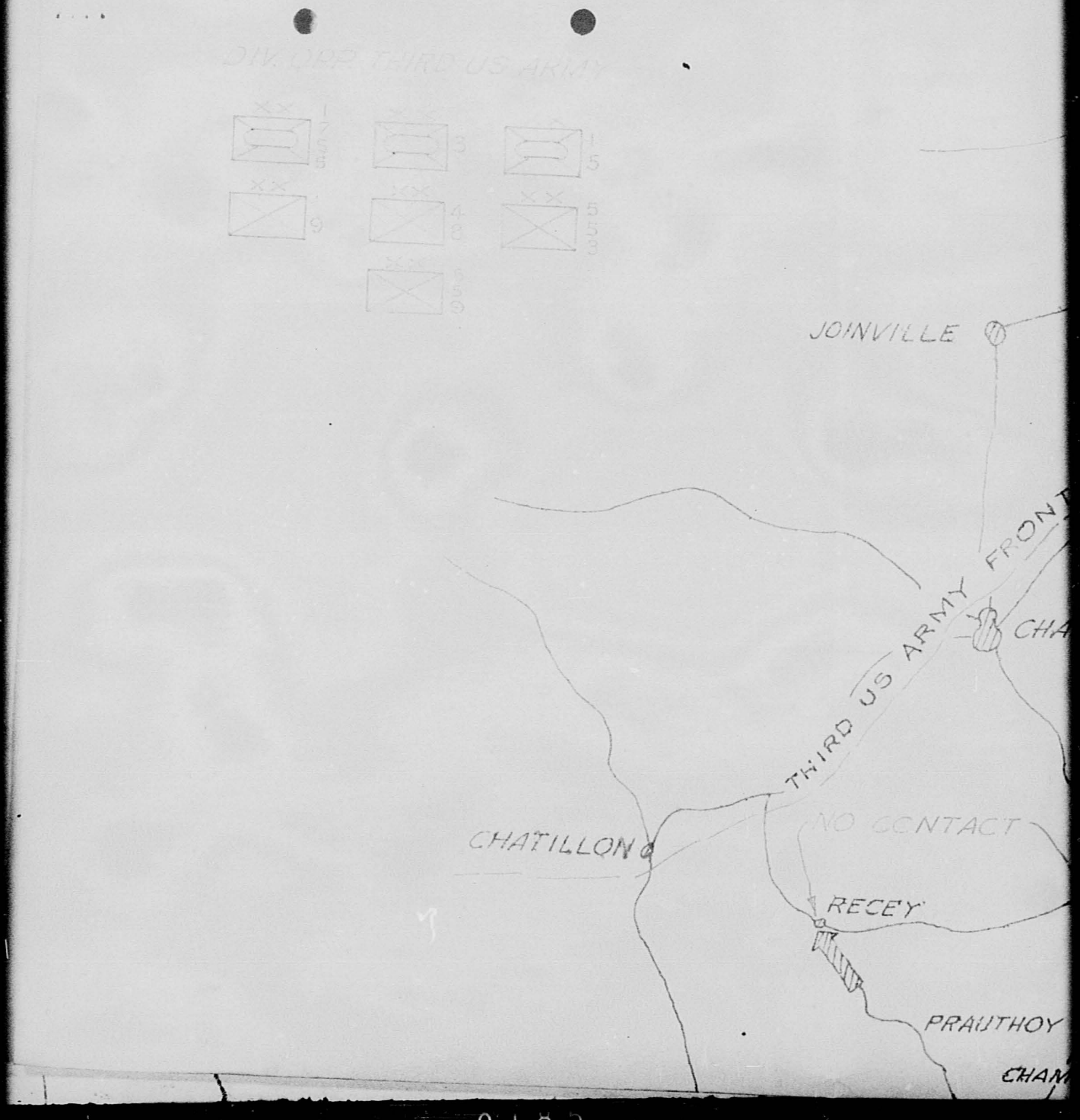
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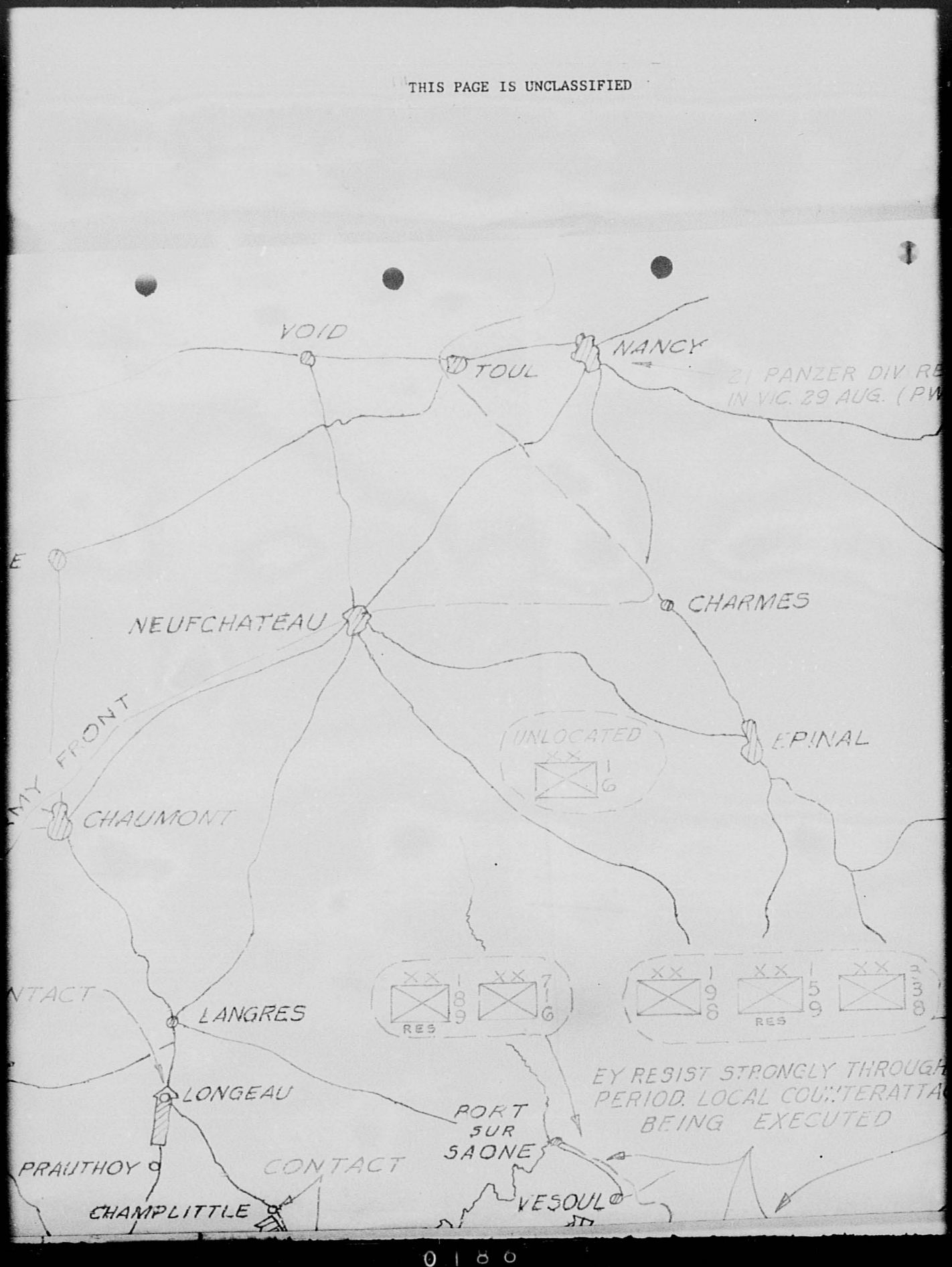
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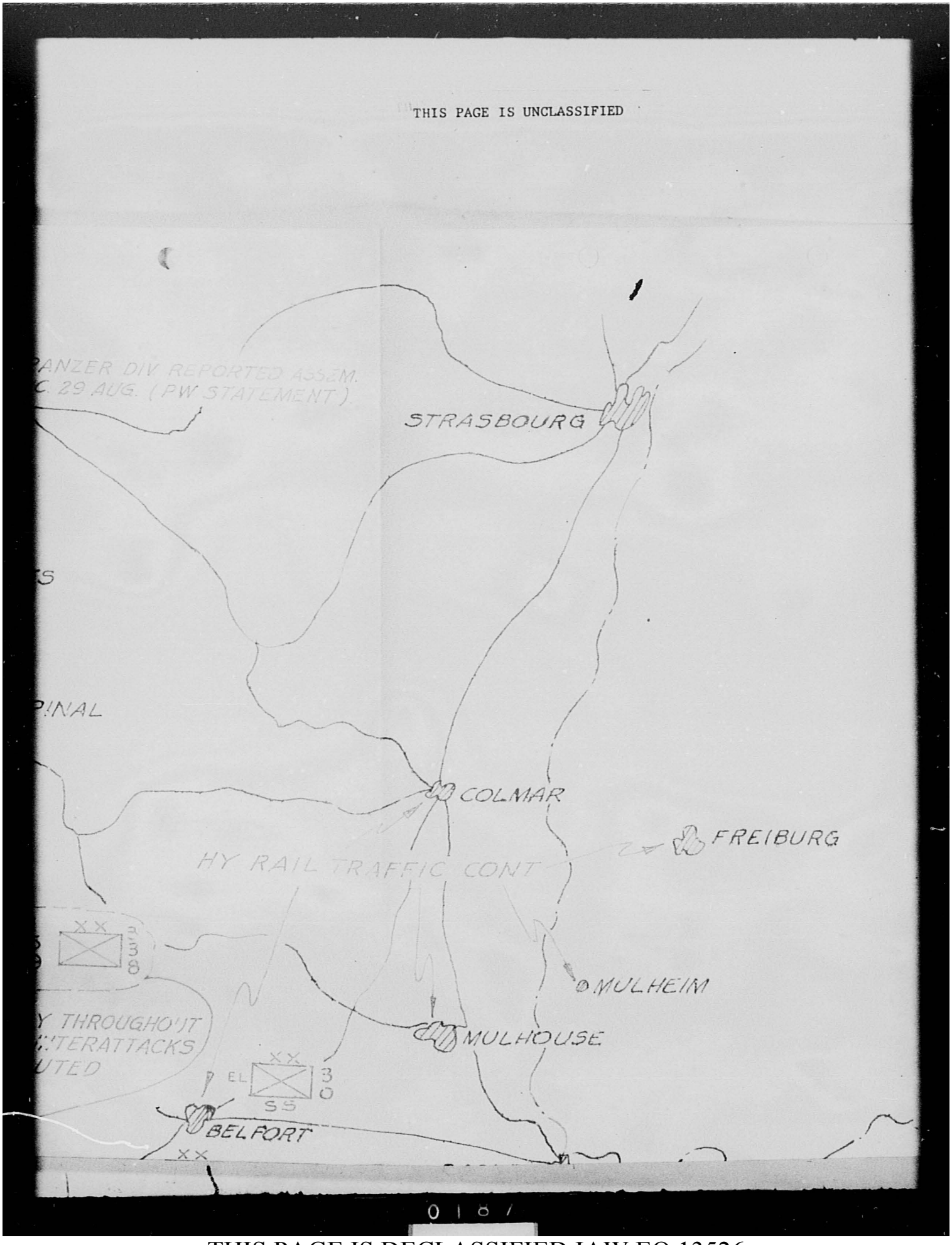


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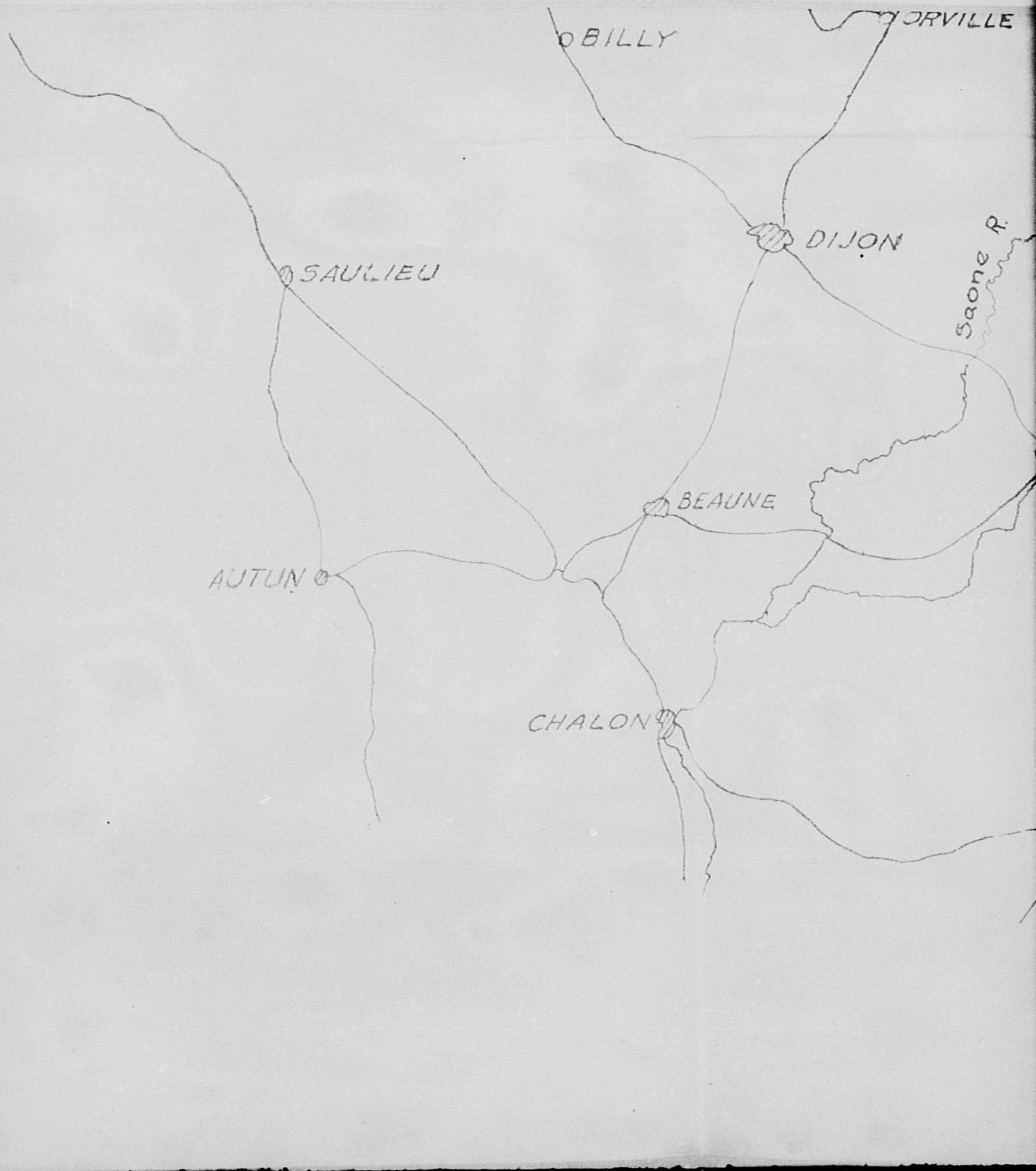
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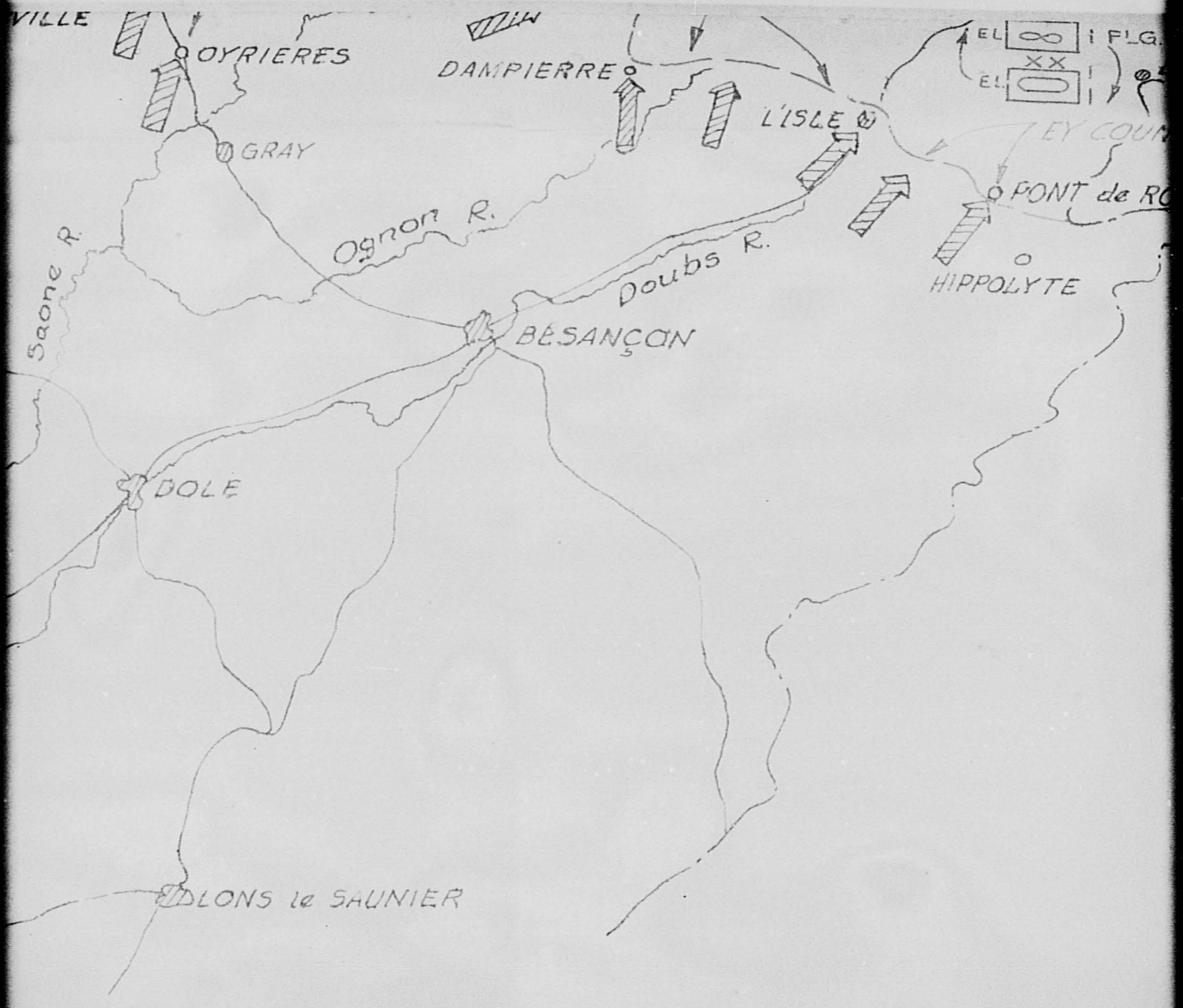
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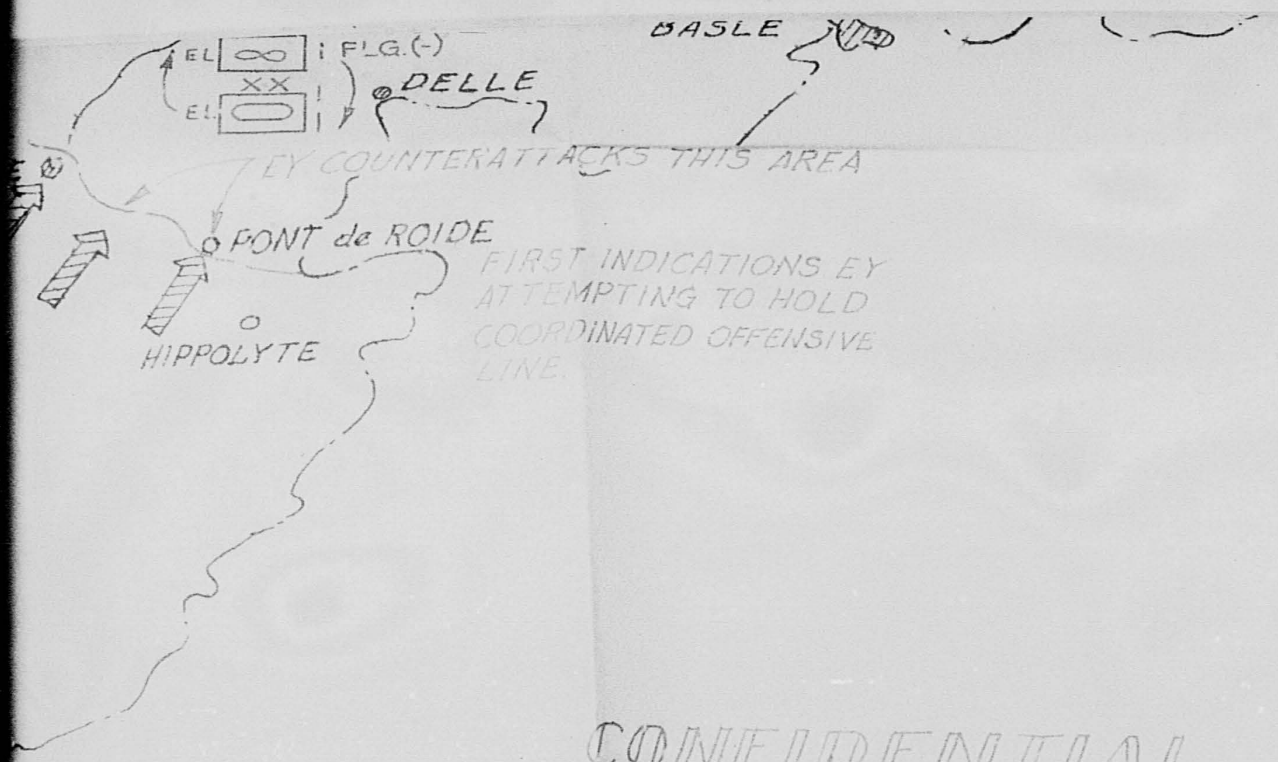
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HEADQUARTERS SEVENTH ARMY
ANNEX Nº 1
To Accompany
G-2 Periodic Report Nº 29-130800 Sept.
Quinn
COL G-2
Patch
LT GEN

MAP SCALE 1:500,000

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RIOZ (O-8176) - VESOUL highway.

During the afternoon enemy resistance on the approaches to VESOUL and VILLERSEXEL slackened slightly as he withdrew to the N, however, a sharp fire fight took place in the hills vic P-1487. At P-1487 enemy rocket fire was received. W of VESOUL only weak resistance was encountered on the U.S. 36th Div. left flank. FFI reports stated that the enemy was preparing to make a stand in the VILLERSEXEL area. Agent and FFI reports indicate that there are about 5000 enemy in both GRAY and VESOUL supported by a few tanks and some artillery.

1st A/B Task Force.

In the 1st A/B TF an increase in enemy activity and resistance occurred during the afternoon in the vic of COL DE BRAUS and TETE DE LA VIRA.

A Co. of 509th combat team were engaged by the enemy in a fire fight at ST. MARTIN VESUBIE (Vn-6021).

c. Miscellaneous.

(1) Naval.

1st S.S.F. reported capturing two operators of one-man submarines on 9 Sept at MENTON (Vs-7786). The two operators stated that there were two more of the same type of submarines operating in the vicinity.

(2) Movements.

Heavy train activity continued between BELFORT - MULHOUSE - FRIEBURG. One large train of 75 flat cars loaded with vehicles, possibly tanks, was observed moving SW toward BELFORT at V-6700. at 0935 hours. This was the third indication of the reinforcement of the BELFORT area through RR movement carrying vehicles and tanks. Between 0730 and 0900, 20 trains totaling 250 cars were reported moving both ways between MULHOUSE - FRIEBURG. At 1020 hours, 390 RR cars were observed in FRIEBURG marshalling yards. Fighter bombers attacked the trains, although hampered by weater. Results have not been reported.

The most significant motor movement reported was 40 plus vehicles including 30 H/D guns withdrawing NE from VESOUL to VILLERSEXEL at 1230 hours, and five tanks observed moving W into BELFORT at 0830B.

In general motor movement was light. Continued dispersed traffic in all directions was observed around BELFORT. Very little traffic was reported on the DIJON - LANGRES - GRAY - MONTIGNY (J-3538) - main roads for the second consecutive day. Enemy road nets to the W to CHINON (K-2131) to AVALLON (N-1878) to DIJON reported practically no traffic. A special mission flown over NEVERS (M-0221) reported light civilian vehicles flying French flags in the town and no movement seen LUZY (N-2500) - MOULIN (R-7674) - NEVERS road.

Traffic pattern during day again shows very little motor movement on enemy road nets N and W of II French Corps and American 36th Div. Hospitals and ambulances reported at LURE (K-1206) and LUXEUIL (K-0220) suggest considerable enemy forces still committed S of these areas.

Heavy rail activity into BELFORT and dispersed two-way traffic LURE - BELFORT gave the impression of milling traffic activity normally associated with grouping and emplacing for defense.

3. MISCELLANEOUS.

a. Enemy Passwords.

Captured documents reveal that the enemy passwords for the period 12 to 15 September 1944, are :

12 Sept - MUENCHEN
13 Sept - PASING
14 Sept - ULM
15 Sept - BAMBERG

Passwords change daily at 1200B.

b. Lt. Gen. NAKE, CG, 159th Res. Div.

PW's state Gen. NAKE has been critically wounded.

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c. Weather Forecast.

Northeastern France.

13 September : Partly cloudy to cloudy with local fog in morning in the mountain valley. Wind N to NW. Visibility restricted to 3/4 miles in morning in fog, improving to 15 miles in afternoon.

14 September : Cloudy - wind from SW 8/10 m.p.h. Possible late showers in afternoon. Visibility restricted to 4 miles in early morning and restricted to 4 miles in showers. Elsewhere visibility 15 miles.

4. ENEMY CAPABILITIES.

No Change.

WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2.

Encl:
Annex No. 1, Overlay.

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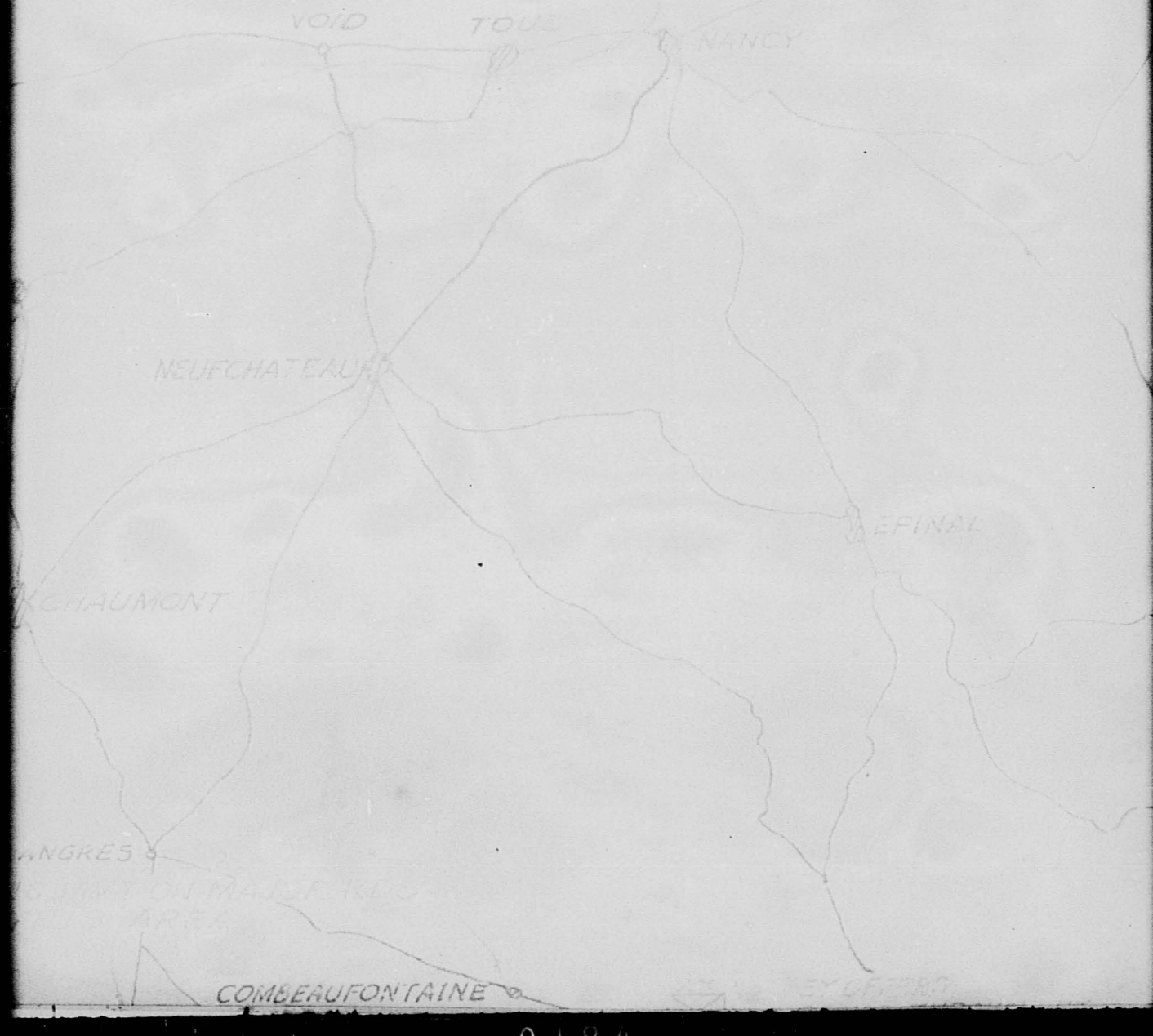
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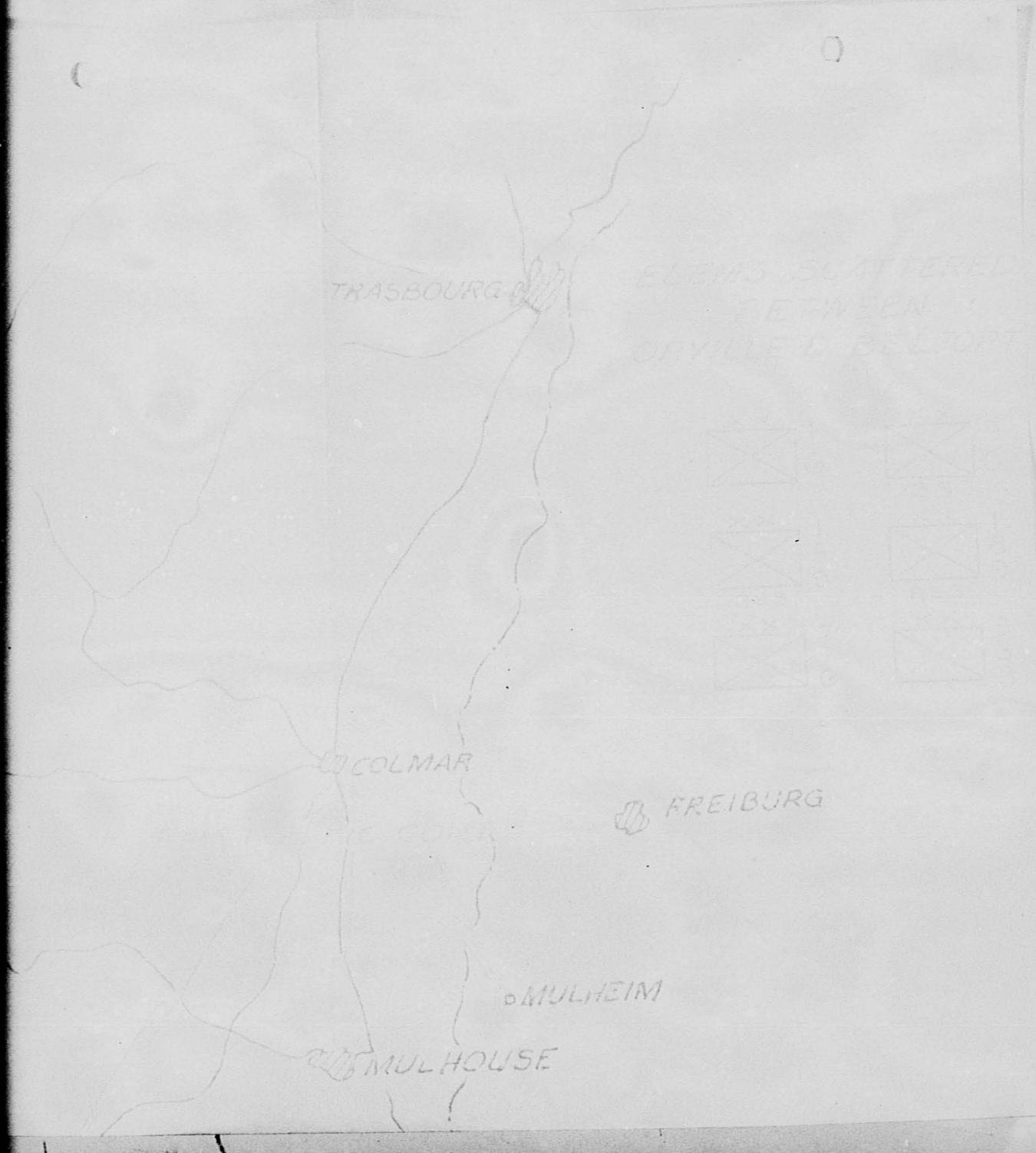
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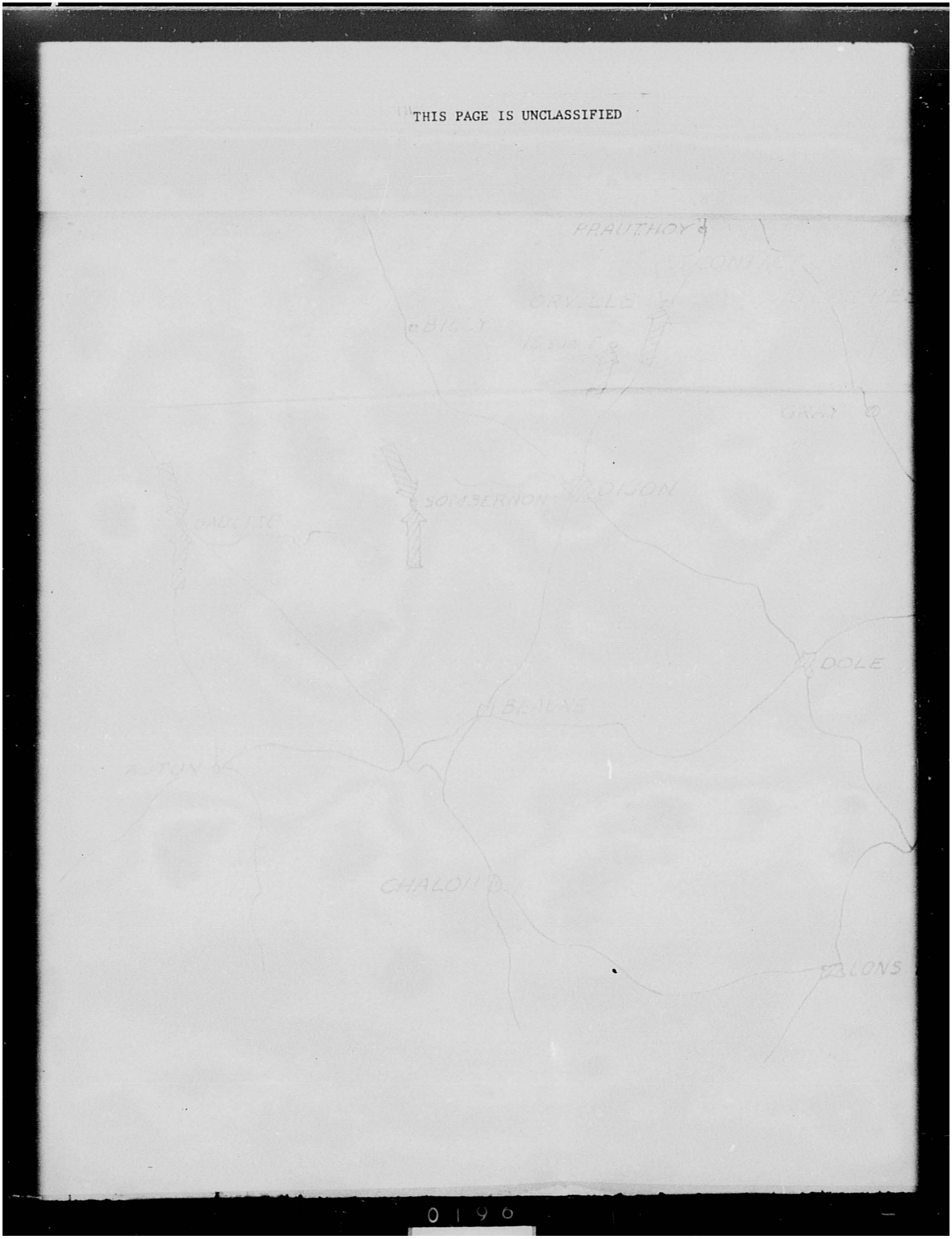
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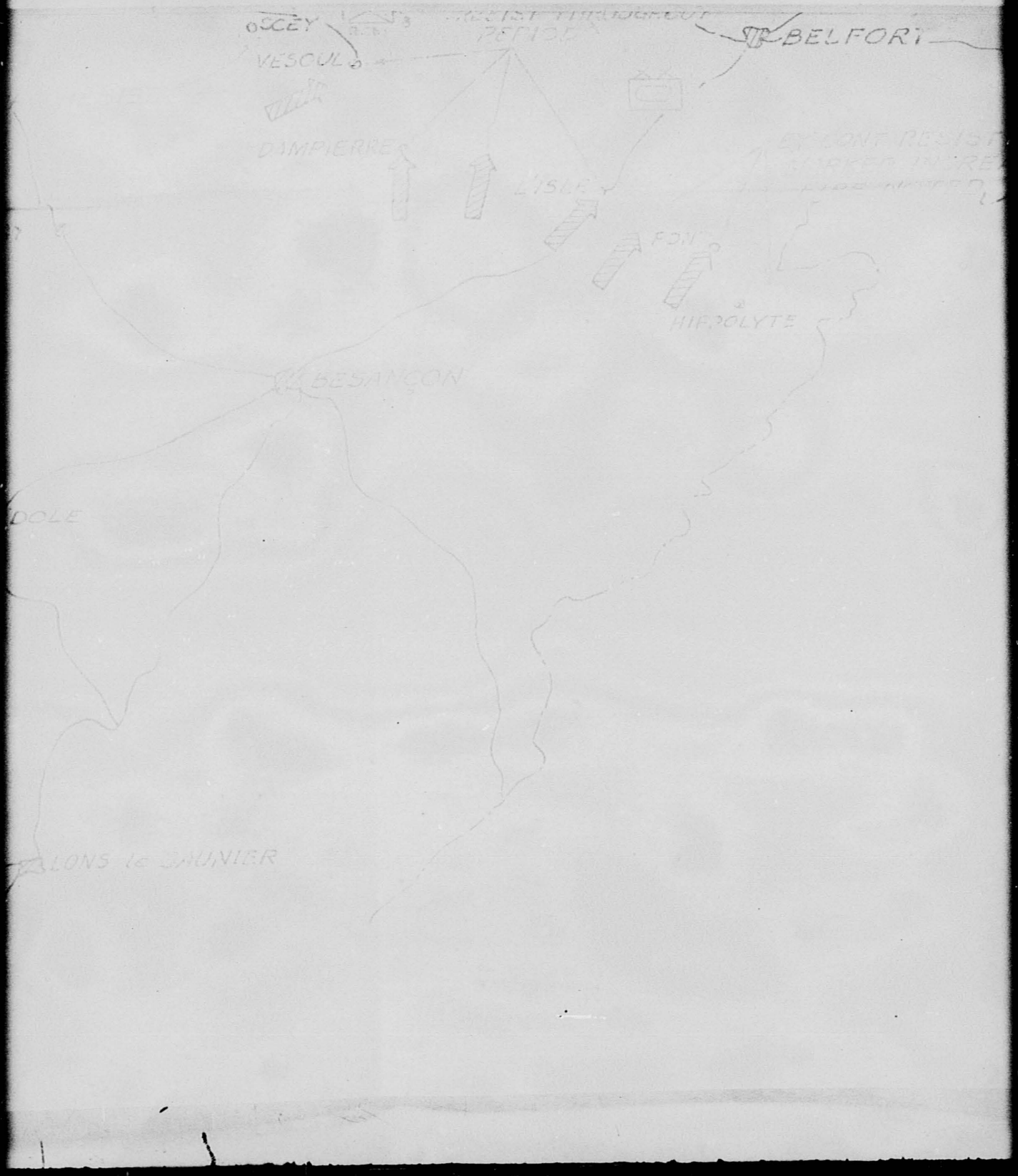
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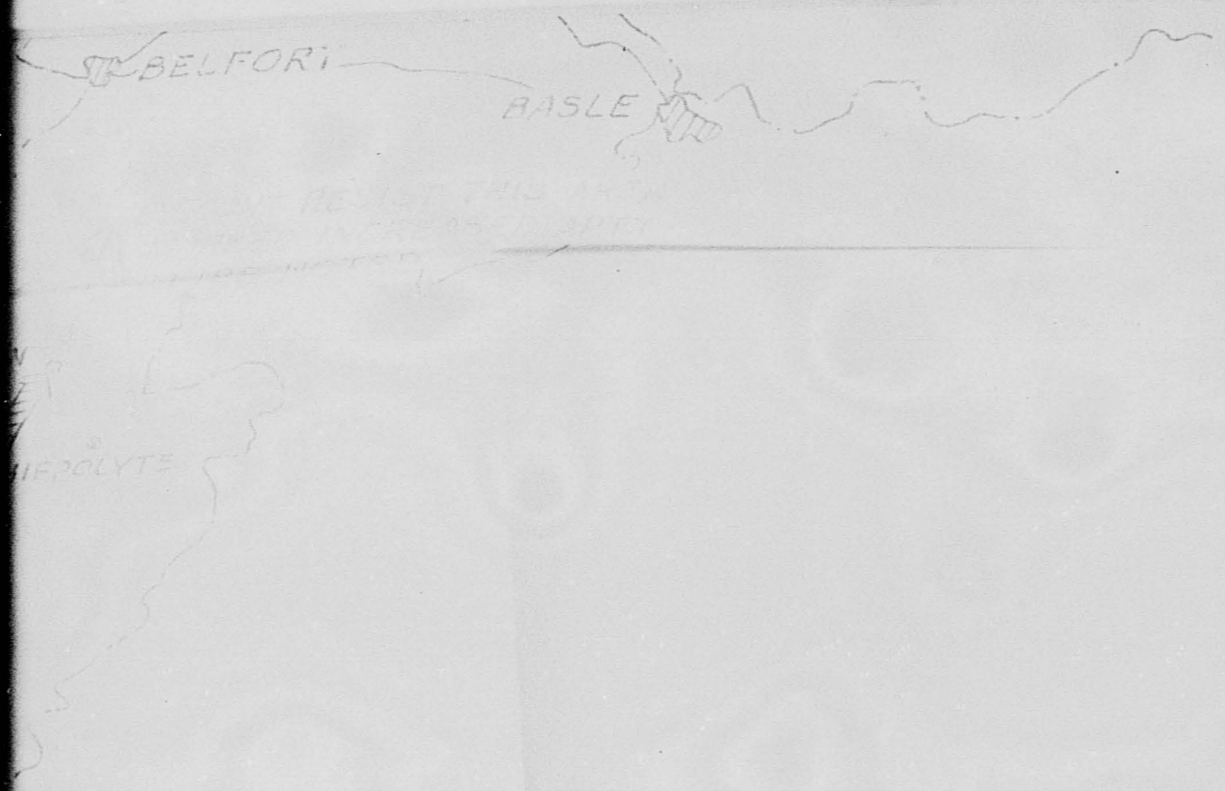
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HEADQUARTERS SEVENTH ARMY
ANNEX No 1
To Accompany
G-2 Periodic Report No 28 /20800 Sept.
Quinn
COL G-2
Patch
LT GEN

MAP SCALE 1:500,000

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HEADQUARTERS SEVENTH ARMY
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APO 758 US ARMY

Copy No. 40

Ref. No. X-52

G-2 REPORT

From: 100800B Sept 44
To : 110800B Sept 44

Hq. Seventh Army
In the Field
111200B September 1944

No. 27.

Map : GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and forward elements - Annex No. 1, Overlay.
   b. Defensive Organization.
      (1) Enemy roadblocks were reported at the following places during the afternoon: O-9581, O-817809, O-9281, P-822795.
   c. Units in Contact.
      (1) Identifications.
      Elements 338th Div. Battle Group.)
      198th Inf. Div.)
      308th Inf. Regt.) Identified in the DOLE - MARNAY (O-6060) area.
      326th Inf. Regt.)
      716th Inf. Div.)
      726th Inf. Regt.)
      4th Co. - identifed vic O-4378.
      4th (Ost) Bn/932nd Inf. Regt. (Attached to 716th Inf. Div.) - identified in the CHALON - DEMIGNY area, 6 Sept.
      189th Res. Div.
      28th Res. Regt.
      38th Res. Bn. - identified in CHALON - DEMIGNY area, 6 September.
      265th Naval Arty Bn.) - identified in vic FONTENOTTE
      Para Bn. z.b.V. 2.) (P-0172).
      5th Cossack Inf. Regt. - elements identified vic BAUME (P-0469)
      1290th C.A. Regt.) - identified in the CHALON - DEMIGNY
      101st C.A. Regt.) area, 6 September.
      741st AA Bn.) - identified in DOLE (O-4038) area.
      689th Sich. Regt.)
      (2) Organization and Strength.
      (a) 30 S.S. Div.
      Captured documents indicate that this div, was formed on the 1st of August 1944, and consists of Russian and Ukrainian "volunteers". It is also known as the 2nd Russian Div. The CO of the Div. is Col. FRUHLING. The Recn Bn, AT Bn, Engr. Bn and Sig. Bn, are still in their early stages of formation. The entire 2nd Bn of the 2nd Regt. deserted to the Maquis recently. Morale of the Div. is reported to be very bad.
      (b) LXIV Res. Corps.
      Gne. SACHS reported to be the CG of this organization.
      (c) 159th Res. Div.
      (i) According to PW's the Div. left the BORDEAUX - MIMIZAN area 21 August/2 September. The Div. was provisionally motorized at the expense of G.H.Q. units stationed in SW France, and rushed to BESANCON to relieve the 11th Pz. Div. It arrived at about half strength due to straggling and U.S. air attacks.
      (ii) Gen. Lt. NAKE is reported to be the CG of this organization.
      (iii) The CO's of the 9th and 251st Res. Regts. have recently been killed and captured, respectively.
      (d) 303rd Regt.
      This regiment is now known to be a G.A.F. Signal Regt.
      (e) Assembly and Regrouping Areas for S. France.
      Captured order from the C in C, NE France, designates the following assembly and regrouping areas for S. France:

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Complete units of at least company strength to DIJON.
Hqs., staffs, straggler groups, to BELFORT.
Customs and naval units to BESANCON.
All Russian units to VESOUL (O-8798).
Straggler groups from First Army and LXIV Res. Corps to LANGRES (J-2422).
G.A.F. units to EPINAL (V-0453).
Civilian and female army employees to MULHOUSE (V-6905), to be routed over the German frontier.

d. Artillery.
(1) Three-gun enemy btry was observed at P-1881 during the afternoon.
(2) Recn troop of 3rd Div. reported enemy btry of 88mm. guns at O-835815.

2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.

The enemy withdrawal opposite the VI Corps front began to shift from a northeasterly to a northerly direction, probably as a result of U.S. advances to the north which have cut off the escape routes paralleling the DOUBS River. Stiff rear-guard actions were offered by the enemy on the approaches to VESOUL (O-8798) and VILLERSEXEL (P-0891). On the Army right flank stiff resistance continued to be met south of MONTBELIARD (P-3688) suggesting that the enemy left flank in that area is being used as a hinge as he withdraws his right flank to the north. West of the SAONE River strong resistance was met by the French at GENLIS (O-1853) northeast of the BOURGOGNE canal. Southwest of DIJON scattered resistance was encountered. Observation of M/T and rail movement was again hampered by weather.

b. Operations of Component Elements.

(1) Antiaircraft Artillery.
101330B: Moderate, heavy flak DANNEMARIE (O-6751).
10 Sept: Intense, accurate, light flak Wv-7454; scant, accurate, heavy flak Wv-6115.

(2) Armored Forces.
During the morning 5 enemy tanks and a company of infantry were reported in the town of FONTENELE (O-2882).

(3) Artillery.
(a) Enemy artillery fire was received vic RANG (P-1878) and at P-0468).
(b) During the afternoon 10 rounds fell W of an enemy roadblock at O-9581, 12 rounds 150mm fell vic P-141798, and 9 rounds fell in the same place a few hours later. Sporadic artillery fire was received at RANG (P-187785).

(4) Aviation.
At 101635B, 2 FW 190's flew from NE to SW over CLERVAL (P-1474) at 3000 feet.

(5) Engineers.
Hastily laid minefield was discovered and removed at O-5544.

(6) Infantry.
(a) French Army "B".
I Corps.
The enemy continued to offer strong resistance SW of MONTBELIARD (P-3688).
II Corps.
The French armored div. continued to advance on DIJON. Recn elements reached SAULIEU (N-4455), and without opposition ARNAY (N-6339). Opposition was encountered at NUIT (N-9841) and BRAZEY (O-1841).
During the afternoon, French troops advanced to PERRIGNY (O-0155), S of DIJON, but encountered stiff opposition at GENLIS, NE of the BOURGOGNE canal.
(b) VI Corps.
Recn to OUGNEY (O-5254) and JALLERANGE (O-5656) reported the area clear of the enemy. 36th Div. continued to the N. Scattered points of resistance were encountered at O-7266, O-6763, O-6358, and O-5852. These were subsequently overcome. No contact with the enemy was reported, by advance elements at O-7173.

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In the 3rd Div. sector advance continued N of BESANCON. Elements going forward on the flank of the main axis of advance reached RIOZ (O-8176) after heavy fighting. Other units advanced to O-9279, and O-8779 where they encountered heavy resistance. Troops advancing along the main road toward RIOZ and engaged in stiff fire fight with the enemy vic O-7768. After pressure was exerted, the enemy withdrew. In the 45th Div. sector no contact was reported by elements who reached UZELLE (P-0982), and L'ISLE (P-2081). A Bn of infantry and eight artillery pieces were reported to be holding VILLARSEXEL (P-0891). However, opposition was encountered at VERNE (P0374).

During the early afternoon only light resistance was met by U.S. troops advancing to the N. The U.S. 3rd Div. met only scattered resistance designed to cover the enemy withdrawal. The 36th Div. reported no contact between AUXONNE (O-3148) and FRETIGNY (O-7283). Light resistance was encountered in the 45th Div. sector by elements advancing to the N.

Later in the afternoon resistance stiffened on the road to VESOUL (O-8798). In the 3rd Div. sector the enemy continued to hold out at QUENOCHE (O-8331), and U.S. rcn elements were halted at O-817809 by AT and small arms fire. Enemy infantry continued to resist U.S. advance at O-942849 and O-785791. In the 36th Div. sector at this time rcn units were forced to withdrew from BUCY (O-6474) by small arms fire. The FFI reported 200 enemy in the town.

c. Miscellaneous.

(1) Movements.

Weather again hampered aerial observation and limited attack aviation. However, three missions with good visibility in the DIJON - GRAY (O-4577) - VESOUL (O-8798) - LANGRES (J-2422) area reported only very light scattered traffic, the largest movement in the area being 7 M/T moving East and 1 West at VESOUL. Two other missions observed light scattered traffic in the LURE (K-1206) EPINAL (V-0453) - REMIREMONT (K-1744) - COLMAR (V-7142) - FRIEBURG (Ww-0833) roadnet. The largest motor activity reported for the day was 30/ ambulances parked facing North at J-6404 and 20/ M/T moving North from J-2202 to J-2309.

TAC/R reported a 150 foot riverboat moving South at A-8398.

Fighter bomber reports indicated reduced scale activity against locomotives as compared with the heavy claims of the past two days. as of 102200B hours, reports received claimed only one locomotive destroyed. This locomotive was moving South at COLMAR (V-7142). A direct bomb hit on the railway at V-9381 damaged a locomotive and seven cars.

The reduced motor traffic and rail activity reflects the severe damage inflicted by air attack recently.

Considerable enemy motor movement was reported in the vic of L'ISLE (P-2081). Several hundred enemy were seen moving NE from O-7866. A column of vehicles was observed moving SE P-2181, and trucks and armored vehicles were observed moving N at O-8174. H/D artillery was observed moving N from O-6765 and several convoys were seen moving N from RIOZ (O-8176) at 1700B.

3. MISCELLANEOUS.

a. PW's taken by Seventh Army to 110800B: 69,562.

b. Weather Forecast.

Low fog and low clouds along mountains beginning to lift after 1200B. Clouds will lift to 1000 feet and over the mountains near BELFORT there will be 6-8/10ths clouds at 3,000 feet with light rain on higher mountain slopes. Wind will be westerly, 12 m.p.h. Visibility zero, improving after 1200B.

4. ENEMY CAPABILITIES.

No Change

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Colonel, G.S.C.,
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Encl: Annex No. 1, Overlay.

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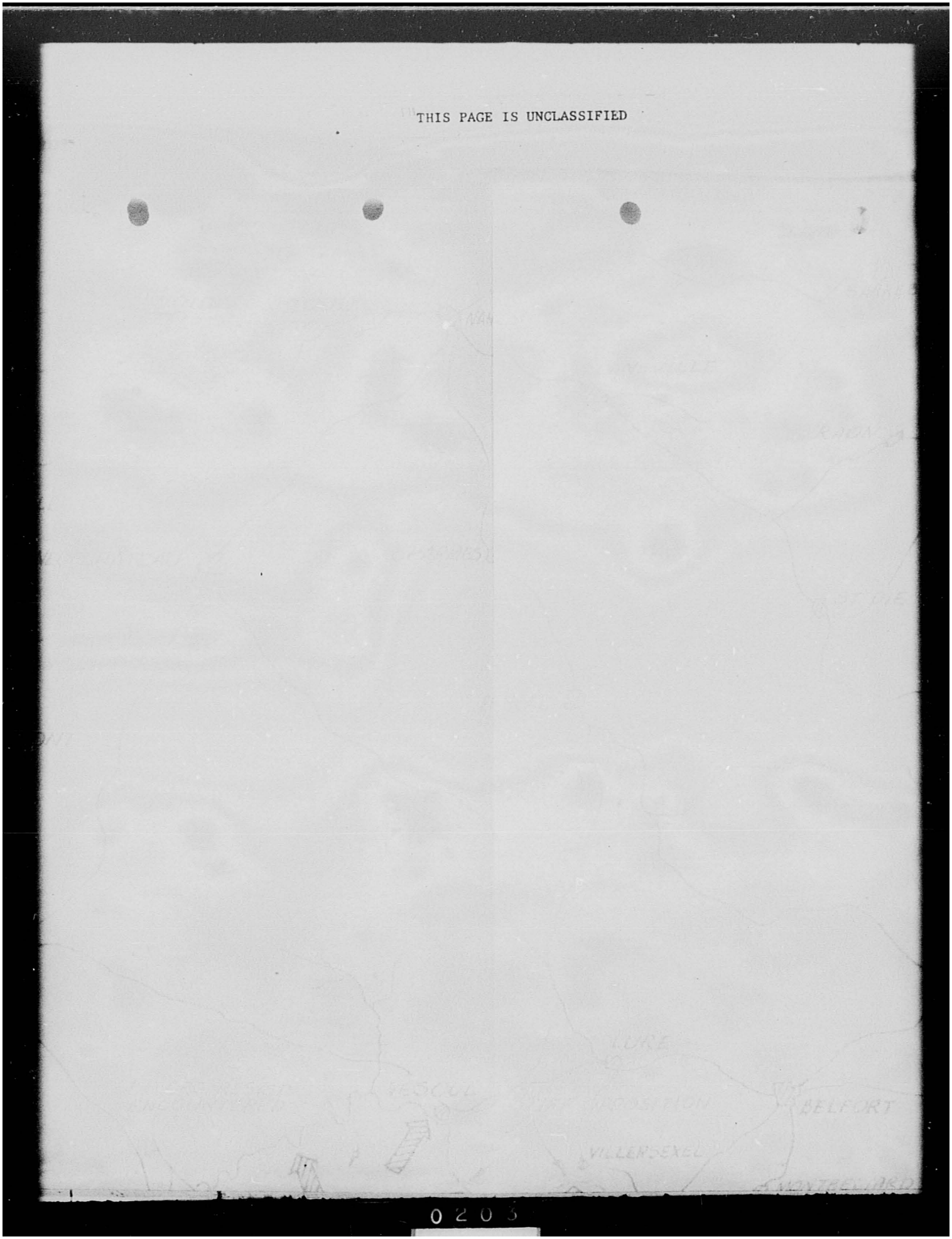
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HEADQUARTERS SEVENTH ARMY
ANNEX No 1
To Accompany
G2 Periodic Report #27 dated
Rainbow
COLOR
MAP SCALE 1:600,000

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Copy No. 40

From: 090800B Sept 44
To : 100800B Sept 44

Ref. No. X-46 G-2 REPORT

Hq. Seventh Army
In the Field
101200B September 1944

No. 26.

Map : GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and forward elements - Annex No. 1, Overlay.
   b. Units in Contact.
      (1) Identifications.
      159th Res. Div.
      251st Res. Inf. Regt.
      205th Res. Inf. Bn. - elements identified vic VORAY (O-7866).
      1022nd Guard Regt. - elements identified by PW's vic BAUME (P-0469), 8 September.
   c. Artillery.
      Several enemy self-propelled guns were observed in the area W of BESANCON during the afternoon.

2. ENEMY OPERATIONS DURING PERIOD.
   a. General Summary.
      The enemy continued to withdraw to the northeast. Because of U.S. crossings of the DOUBS he was unable to continue to use this river as a screen, and had to resort to delaying and rear-guard actions north of BESANCON (O-7955) and BAUME (P-0469). On the right flank opposite 3eme DIA the enemy continued to resist French advances north toward MONTBELIARD (P-3668) but he was unable to prevent the recapture of several towns in that vicinity. West of the SAONE river isolated units of enemy troops continued to engage French troops between MONTCHANIN (S-6396) and and BEAUME (N-9028) although the French had pushed on the AUTUN (N-4918) and forced the enemy out after a hard fight. Continued heavy train movement eastward was observed on the VESOUL - BELFORT - MULHOUSE - FRIEBURG - STRASBOURG lines. Weather again limited observation of M/T.
   b. Operations of Component Elements.
      (1) Antiaircraft Artillery.
      091450B: Intense, accurate, light flak over landing ground at Ww-0835.
      091600B: Moderate, accurate, heavy and light flak at P-3790; intense, accurate, heavy flak Ww-1545.
      091700B: Intense, accurate, light flak Wv-7242.
      091755B: Intense, accurate, light flak MULHOUSE (Wv-7005).
      (2) Armored Forces.
      During the morning 9 Sept. several enemy tanks were fired upon vic O-6958. During the afternoon enemy infantry and tanks opposed our elements at P-0571. Enemy resistance at SOYE (P-1480) during the afternoon included several tanks.
      (3) Artillery.
      During the morning scattered enemy artillery fire fell in the area W of BESANCON, particularly in vic of bridge at O-7450.
      (4) Aviation.
      At 081902B, 2 ME 109's strafed in the vic P-090369.
      1st A/B Task Force reported that 4 enemy planes were operating in the vic of CASTILLON (Vs-7593).
      (5) Infantry.
      (a) French Army "B".
      I Corps.
      During the day the enemy continued to strongly hold PONT DE ROIDE (P-3574) and CLAIMANS (P-2173). By evening, 3 DIA reported that they had recaptured PIERREFONTAINE (P-1855), BLAMONT (Wa-3365) and VILLARS LES BLAMONT (Wa-3564). French

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elements reported reaching the area W of MT. GENEVRE and ST. ANDRE (6 kms. W of MODANE).

II Corps.

A strong enemy counterattack was made vic MEURSAULT (N-8422) but was repulsed by a flank guard of II Corps. Enemy losses were high with 300 dead and 300 PW's, 300 vehciles and 12 guns of different calibers destroyed. The enemy successfully reoccupied COUCHES (N-7010) and contact was maintained SW of ST. LEGER (N-7508) and SW of ST. GILLES (N-7711). By noon French troops had reached the N edge of AUTON (N-4918) and found the place strongly held by the enemy. Enemy elements were reported occupying the complete length of the BOURGOGNE canal between DIJON and ST. JEAN DE LOSNE (O-2238). All the bridges over the canal were blown.

(b) VI Corps.

During the morning 9 Sept., enemy resistance to U.S. advances N of the DOUBS river began to weaken. Heavy resistance was met on the route NE between BESANCON (O-7955) and BRAILLINS (O-8363). A small enemy pocket of resistance remained on the NE edge of BESANCON and was mopped up. Heavy resistance was encountered in vic O-7661.

In the 36th Div. sector, reconnaissance to the W was delayed by an AT gun vic O-7057 and several enemy tanks were seen vic O-6958. S of GRANDFONTAINE (O-7050), an estimated enemy company engaged U.S. reconnaissance elements. In the 45th Div sector enemy infantry remained in BAUME (P-0469) during the morning supported by AT guns and mobile flak wagons. However, they were unable to prevent U.S. troops from crossing the river.

During the afternoon determined resistance in the 3rd Div sector was encountered and overcome S of VORAY (O-7866), and an enemy counterattack of unknown strength was made in the vic of TRAITIFONTAINE (O-8375). Enemy re-occupied the town of ANTORPE (O-6148). Enemy infantry and tanks were encountered P-7571 where they were holding the road.

In the 36th Div sector only light scattered opposition was encountered by U.S. elements moving W and NW. Light resistance was encountered N of BAUME in the 45th Div sector. After a stiff fire fight with enemy tanks and infantry, SOYE (P-1460) was reported clear of the enemy.

1st A/B Task Force.

Situation continued unchangod in this sector. The enemy manned prepared strongpoints and harassed our defensive positions with artillery, morters and automatic weapons. During the afternoon, U.S. Air OP reported an enemy armored column moving N at (Vs-741963).

c. Miscellaneous.

(1) Movements.

The enemy had an opportunity to move for the fourth consecutive day without being observed by our air in the DIJON - MONTBARD (N-5093) CHATILLON (H-6720) - LANGRES (J-2423) - GRAY (O-4577) area as weather again restricted TAC/R. One mission with good visibility reported no movement seen from 0750B to 0845B on road nets DIJON - SAULIEU (N-4356) - CHATILLON and could not confirm ground reports of large movement in this area. However, foot troops are easily dispersed and concealed and TAC/R usually has not been able to observe columns of foot troops. The largest motor transport movements observed was 50 M/T moving southwest from FRIEBURG to MULHOUSE at 090830B.

Heavy rail activity was observed and attacked for the second day on the VESOUL (O-8798) - BELFORT - MULHOUSE - FRIEBURG - STRASBOURG lines. Incomplete claims for the day were nineteen locomotives and twenty two RR cars destroyed, six locomotives and 54 RR cars damaged. Several other reports of the trains observed had M/T and tanks loaded on flat cars. A train of two locomotives and thirty flat cars loaded with tanks and M/T was observed moving west toward BELFORT at A-6091 indicating possible reinforcement of the BELFORT area. One locomotive was claimed destroyed, three M/T destroyed, three damaged, and fire spreading to the rear of the train.

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Reconnaissance missions over the FRANCO-ITALIAN passes reported very little movement on the roads but a definite impression of military occupation on the terrain in front of the Airborne Task Force.

An enemy column of approximately 3 miles long moving N vic O-7273 during the afternoon was seen and shelled by U.S. artillery.

A reliable agent reported that the highways W of DIJON were filled with enemy columns moving slowly E in the afternoon of 8 September.

An enemy attempt to move motor troops into CLERVAL (P-1374) was detected and column taken under fire by U.S. tank destroyers.

3. MISCELLANEOUS.
   a. PW's taken by Seventh Army to 100800B: 68,584.
   b. Weather Report.
      11 September 0600B to 2100B: Light rain during the night ending before dawn. Low clouds and fog in the river valleys until 0830B. 6 to 10 tenths of middle clouds at 8000 ft disapating by 0800B but reaching 6 to 10 tenths at 3500 feet. Ceiling unlimited lowering to 3500 feet over mountains. Visibility unrestricted except in river valleys until 0830B. Surface winds N to NE at 10-12 m.p.h.

4. ENEMY CAPABILITIES.
   No change.

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From: 080800B Sept 44
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G-2 REPORT

Hq. Seventh Army
In the Field
091200B September 1944

No. 25.

Map : GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.
   a. Enemy front line and Forward elements - Annex No. 1, Overlay.
   b. Defensive Organization.
      (1) 1st A/B Task Force reported 2 camouflaged enemy blockhouses on MT. AGAISEN at approx coordinates Vs-7599.
      (2) Agents report enemy infantry positions are being dug at AUDINCOURT (Wa-3276), FESCHE (Wa-4178) and MOMMAY (Wa-3382). At MOMMAY there is also an AT ditch.
   c. Units in Contact.
      (1) Identifications.
         1st G.A.F. Trng. Div.
            63rd Flieger Regt. - PW, straggler from 7 Co., captured vic BAUME (P-0469), stated regt. had orders to move to MONTBELIARD (P-3688) as best it could.
         5th Mountain Div.
            85th Mtn. Regt. - elements identified by PW's BRIANCON area (P-3997), 7/8 Sept.
         11th Pz. Div.
            111th P.G.R. - PW's from 8 Co., captured vic BAUME (P-0469), 7/8 Sept.
            11th Pz. Rcn. Bn. - elements identified by PW's vic BAUME, 8 Sept.
         16th Inf. Div.
            213th G.R.) - elements identified by PW's W
            156th Arty Regt.) of CHAGNY (N-8415), 7/8 Sept.
            NOTE: (213th Res. G.R. was organic part of 158th Res. Div. prior to upgrading of 158th to 16th Field Div.)
         158th Res. Div.
            251st Res. Arty Regt. - elements identified by PW's W of CHAGNY (N-8415), 7/8 Sept.
            251st Res. Inf. Regt.) - elements identified by PW's
            9th Res. G.R.) vic BESANCON (O-7955), 8 Sept.
         189th Res. Div.) - elements identified S of BEAUNE (N-9028),
         716th Inf. Div.) 6 Sept.
         San Marco Marine Bn. (Italian) - PW's from 2 Co. taken vic W of CHAGNY (N-8415), 7/8 Sept.
         14th Fortress Engr. Bn. - elements identified by PW's vic BAUME (P-0469), 7 Sept. PW stated two companies of Bn. withdrawing toward BELFORT (Wa-3493).
         805th Ost Bn. (Azerb) - elements identified by PW's vic SCULLY (X-8989), 6 Sept. PW stated Bn. was withdrawing to MENDE (M-9246).
         809th Marine Arty Bn. - identified by PW's vic BESANCON (O-7955), 8 Sept.
         950th Hindu Regt. - elements identified by PW's vic. of ST. LEGER (N-7507), 8 Sept.

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d. Supply and Evacuation Establishments.
Agents report that during the last few days many trains moving E from BELFORT have been unloaded at PETIT CORIX (Wa-430910), and that the town may become a large enemy supply dump.

2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.
The enemy continued to withdraw to the northeast on the north side of the DOUB river. BESANCON (O-7955) was captured after heavy fighting and the enemy then contested U.S. advances north of the town. A counterattack with tanks forced U.S. elements out of BAUME (P-0469). In the area south of BELFORT (Wa-3493) the enemy countered the threat of 3rd D.I.A. with two columns including tanks who engaged the French in vic GLAY (Wa-3667) and BLAMONT (Wa-3365). West of the SAONE enemy resistance in BEAUNE (N-9028) was overcome but fighting continued between MONTCHANIN (S-6396) and CHAGNEY (N-8415). Heavy rail movement northeast towards BELFORT and MULHOUSE was noted during the day.

b. Operations of Component Elements.

(1) Antiaircraft Artillery.
000845B: Heavy Flak BELFORT (Wa-3493).

(2) Armor.
During the morning 8 Sept. enemy tanks supported infantry columns which counterattacked and succeeded in recapturing BAUME. The tanks remained in the town all day.
Enemy Mk V (Panther) tanks were included in two enemy columns which moved S from MONTBELLARD (P-3688) on the morning of 8 Sept. and attacked positions of the French D.I.A. in the GLAY (Wa-3667) - BLAMONT (Wa-3365) area.
During the morning, 3 enemy tanks were reported firing from O-766515 and 1 from O-771616. Civilian reported 30 enemy tanks at P-150750 and tank assembly area at P-166763. Air OP during morning reported 6 tanks at O-960615.
Three tanks during the morning opposed elements of the U.S. 3rd Div. moving N. vic RJ O-766595.

(3) Artillery.
(a) During the morning artillery of unknown caliber fired on a bridge at O-747508, and a RR gun was reported to be firing into the U.S. 3rd Div. area.
(b) Artillery fire was encountered by U.S. troops attempting to move N from BESANCON on the afternoon of Sept. 8th.

(4) Aviation.
Two ME 109's flying NE at P-0060 strafed U.S. artillery on 7 Sept.

(5) Infantry.
(a) VI Corps.
By noon of 8 Sept., U.S. 3rd Div. had captured BESANCON after heavy fighting against elements of the 159th Res. Div., several Sicherungs regiments and miscellaneous Russians. In the 45th Div. area the enemy heavily resisted the crossing of the DOUBS river at BAUME (P-0469). During the morning an enemy counterattack with infantry and tanks recaptured the town. No contact was made by U.S. reconnaissance elements 10 miles W of BAUME and N of the DOUBS river.
During the afternoon in the U.S. 3rd Div. sector, the enemy resisted U.S. advances N and W of BESANCON with small arms, mortars, tanks and artillery. Several engagements were reported in the area O-7661. In the U.S. 36th Div. sector during this period, light scattered resistance was encountered vic O-7155 and O-6351. In the U.S. 45th Div. sector, enemy resistance continued strong in the vic of BAUME and enemy tanks were still reported in the town.

(b) French Army "B".
I Corps.
In the 3rd D.I.A. sector during the morning 8 Sept., a heavy column including tanks was reported moving S from MONTBELLARD (P-3688) towards forward elements of the Div. along the DOUBS river. Subsequently, two enemy columns

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supported by panther tanks attacked the French positions at GLAY (Wa-3667) and BLAMONT (Wa-3365) and succeeded in recapturing GLAY. Heavy engagements took place around BLAMONT. In the 2 D.I.M. area, BRIANCON (P-3997) was occupied, but heavy fighting continued in the general area during the morning.

During the afternoon 8 Sept. in the 3 D.I.A. sector, the enemy continued to strongly hold GLAINANS (P-2173), PONT DE ROIDE (P-3574), VANDONCOURT (Wa-3774) and HERIMONCOURT (Wa-3471). In the 2 D.I.M. sector during the afternoon the French estimated that the enemy held COL PETIT ST. BERNARD with 1500 men and that COL MONT CENIS appeared to be held by two bns. supported by artillery.

II Corps.

During the afternoon 7 Sept. enemy infantry and tanks attempted to evacuate the MONTCHANIN (S-3696) - CHAGNY (N-8415) area. By morning of 8 Sept. enemy resistance in BEAUNE (N-9028) had been mopped up by the French armored division. During the morning the enemy brought an estimated infantry bn, up on an armored train to the area between MONTCHANIN (S-6396) and CHAGNEY (N-8415). This unit was engaged by French troops and 400 enemy were killed and 30 taken prisoner. During the afternoon, 2000 enemy were reported moving from CORBERON (O-0226) to SEURRE (O-1326).

c. Miscellaneous.

(1) Motor Movements.

TAC/R reported only limited M/T movement in the BESANCON - LANGRES - DIJON - MULHOUSE area from 1745B - 1915B. 10 M/T observed moving N from BESANCON at 1800 hours and 25 M/T moving both ways vic of FREIBERG.

During the morning of 8 Sept. only 15 M/T were observed moving N between DIJON and LANGRES (T-2323).

During the afternoon a column of horse-drawn artillery were seen moving NE in the vic of O-6254.

(2) Rail Movement.

Heavy train traffic was observed moving E from MULHOUSE and N into EPINAL. From 1745 to 1845 TAC/R observed 4 trains moving E from MULHOUSE, heavy train movement V-7005, V-8012, W-1033, V-7041, and 5 trains moving N toward EPINAL. At 1900B train with steam up observed at O-0682.

Armed/Recn N, NW and NE of the Bomb Safety Line reported the following results of its activity from 1500B to 1750B: 13 locomotives destroyed, 5 damaged, 29 M/T destroyed, 13 damaged, 10 H/D transports destroyed, 3 damaged, 4 box cars destroyed, and 1 armored car destroyed.

Very heavy rail movement between VESOUL (O-8798) to MULHOUSE (V-6905) and VESOUL to BELFORT. These movements were effectively engaged by fighter-bombers.

At 0845B a 30 car train was seen moving NE into BELFORT and a 25 car train was seen moving E at O-6295. At approximately the same time, 6 engines and 100 cars were seen moving NE in the area O-7091 and J-9002.

(3) Captured Documents.

Document captured by French Armored Div. reveals three battlegroups of 716th Inf. Div. to be responsible for holding Allied advance in CHALON (N-9202) area. Their mission was to hold, so that elements of the German 1st Army could pass through CHAGNY and CHALON in their movement to the NE.

(4) Agent Reports.

Agents report HQ of Nineteenth Army to be at GIROMAGNY (Wk-3614).

3. MISCELLANEOUS.

a. PW Statements.

(1) PW's from the 159th Res. Div. captured at BESANCON stated that the entire Div. had been committed there with mission to hold til the 15th of Sept., and that the 11th Pz. Div. had left for BELFORT.

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(2) A straggler from the 7th Co. of the 63rd Flieger Regt. stated that his regiment was ordered to move to MONTBELLARD (P-3688) as best it could.

b. Route of Withdrawal of 11th Pz. Div.

An enemy captured document indicated that the route of withdrawal for the 11th Pz. Div. was planned to be NE along the general line MARNY (O-6060) - VILLERSEXEL (P-0891) - BELFORT.

c. Weather Forecast.

BELFORT G.F Sector, 10 September.

Overcast low clouds at dawn and rain and thunder storms during the day. Visibility unrestricted except in storm. Surface wind SW 15 MPH. Temperature cool.

Future Outlook - 11 September.

Scattered low clouds in morning, increasing afternoon, and showers in the mountains.

4. ENEMY CAPABILITIES.

No Change.

WILLIAM W. QUINN
Colonel, G. S. C.,
A. C. of S., G-2.

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DIJON

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HEADQUARTERS SEVENTH ARMY
Office of the A. C. of S., G-2
APO 758 US ARMY

Copy No. 41

From: 070800B Sept 44
To : 080800B Sept 44

Ref. No. X-26

G-2 REPORT

Hq. Seventh Army
In the Field
081200B September 1944

No. 24.

Map : GSGS 4249, EUROPE, 1:100,000.

1. ENEMY SITUATION AT END OF PERIOD.

a. Enemy front line and forward elements - Annex No. 1, Overlay.

b. Defensive Organization.

(1) A modern fort with 155mm. guns is reported to be 1 km. E of BESSONCOURT (Wa-3893). On route Nationale No. 19, a similar modern fort with 155mm. guns was reported to be at ROPPE (Wa-3897). A tunnel was reported to connect these forts.

(2) Agents reported the following defenses on 7 September: Light defenses on the DELLE (Wa-4478) - MORVILARS (Wa-3983) road and also at CHATENOIS (Wa-3384) and NOMMAY (Wa-3382); small roadblocks between BOULOT (O-7267) and SORANS (O-8073).

c. Units in Contact.

(1) Identifications.

11th Pz. Div.

209th Engr. Bn. - Elements defending BESANCON 7 September. Further elements identified in the BOURG area 4/6 September.

119th Arty Regt. - identified in BOURG area 4/6 September.

110th P.G. Regt.

2nd Bn. - elements identified vic O-7952 on 5/7 Sept.

61st AT Bn. - identified in BOURG area 4/6 September.

159th Res. Inf. Div.

9th Res. Regt.

57th Res. Bn. - identified in BESANCON area 7 Sept. PW stated regt. arrived at BESANCON on 6 Sept. and that the 261 (probably 251) Res. Regt. was also in the BESANCON area.

189th Res. Div.

238th Res. Regt.) Elements identified in the ANSE - VILLE-
211th Res. Sig. Bn.) FRANCHE (on SAONE river N of LYON) area
110th Res. Inf. Bn.) 3 Sept. Elements also identified CHALON
) N-9101 area.

244th Inf. Div. (destroyed)

933rd Inf. Regt. - identified vic O-7957 on 5/7 Sept. This unit was attached to 338th Inf. Div. Battle Group.

338th Inf. Div.

759th Inf. Regt. - elements identified in the ANSE - VILLEFRANCHE area (S-8412) on 3 Sept.

338th Engr. Bn. - elements identified at S-7500, 5/7 Sept.

560th Admin. Hqs. (Feldkommandantur)
Gen. Maj. FELBERT, commanding.
Reported to be in BESANCON. General FELBERT was taken by the French on 6 Sept. vic VALDAHON (P-0347).

716th Inf. Div.

736th Inf. Regt.

2nd Bn. - identified in the ANSE - VILLEFRANCHE area on 3 Sept.

716th Engr. Bn. - identified in the ANSE - VILLEFRANCHE area on 3 Sept.

Elements of the Div. also identified 5/7 Sept. in the GIVRY (N-8401) area.

781st Turkestan Bn - vic S-9649 on 4 Sept.

19th SS Police Regt. - identified in the ANSE - VILLEFRANCHE area on 3 Sept.

71st Flieger Regt. - identified in the BOURG (T-2238) area 4/6 Sept.

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601st Ost. Bn. - identified in BOURG area 4/6 Sept.
625th Landesschutzen Bn. - CHALON (N-9101) area.
303rd Regt. - idenified vic BESANCON, 7 Sept. This unit reported as a Sicherungs regt., but prior to D-Day had always been reported a G.A.F. regt.
95th Sicherungs Regt. - identified vic BESANCON, 7 Sept.
198th Sicherungs Regt. - vic BESANCON. PW stated the 1st Bn was responsible for the area DOLE - BESANCON - MONTBELIARD (P-3688).
199th Sicherungs Regt.
2nd Co. - by PW taken in vic O-9564.
200th Sicherungs Regt. - identified in the ANSE - VILLEFRANCHE area on 3 Sept.

(2) Organization and Strength.
(a) 11th Pz. Div.
According to PW statements the 11th Pz. Div. now has the following additional units with it:
110th Repl. Bn.
119th Repl. Bn.
11th Auffangs (Holding) Bn.

d. Artillery.
Agents reported that on 5 September there were 10 artillery pieces of unknown caliber set in concrete emplacements vic of LONGVIC (O-0657), and that at PERRIGNY (O-0255) there were 4 large caliber AA pieces on rail.

e. Reserves and other Forces Capable of Intervention.
Agents report that fresh SS troops from Germany are moving toward the BELFORT Gap.

f. Supply and Evacuation Establishments.
Agents report that at ROCHE (O-8659) there is a gasoline dump containing 900,000 liters of gasoline.

2. ENEMY OPERATIONS DURING PERIOD.

a. General Summary.
The enemy continued his withdrawal to the northeast screening his route of withdrawal on the southeast. Elements of a new division, the 9th Res. Regt. of the 159 Res. Div. was identified in the vic of BESANCON (O-7956). On the left flank of Army "B" the enemy continued to maintain strong flank guards south of BEAUNE (N-9028) and at MOULINS (R-7674), DOMPIERRE (S-0370) and DIGOIN (S-2766) indicating he was probably still covering movements northeast toward DIJON (O-0462). In the VI Corps area fighting continued for BESANCON and BAUME (P-0469). In the vicinity of BAUME the enemy launched a counter-attack supported by six tanks. Enemy movements were seen moving northeast between the SAONE and DOUBS rivers west of DOLE (O-3937) and northeast of DOLE.

b. Operations of Component Elements.
(1) Engineers.
1st A/B Task Force reported the ST. MICHEL (K-2532) - MODANE (K-3930) road heavily mined.

(2) Infantry.
(a) VI Corps.
Although the enemy withdrew from the area between the DOUBS and LOUE rivers on 6 September, between DOLE (O-3937) and PRAISANS (O-6044), he continued to occupy the N bank of the DOUBS in this sector. U.S. patrols to the river bank drew MG fire from enemy elements to the N, guarding the sites of blown bridges.

In the 3rd Div. sector by the morning of 7 September only scattered resistance from small isolated groups of enemy remained in BESANCON, which was isolated by U.S. troops on the E, S and N. The enemy at this time was believed to be using Russian labor troops and elements of the 11th Pz. Div's Engineer Bn to defend the town. By evening of the 7th, scattered but determined resistance continued in the vic of BESANCON, with the Forts in the city area offering strong opposition.

The U.S. 45th Div. encountered the enemy at BAUME during the night 6/7 Sept. 2000 Russians were reported by the FFI to

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be between BESANCON and VESOUL (O-8797). Enemy resistance in BAUME continued. An enemy counter-attack with 6 tanks in this area at P-02877) forced our outposts to withdraw.

In the 36th Div. sector no contact was made during the afternoon. During the morning reconnaissance patrols received self-propelled MG and mortar fire from the vic of DOLE at O-400375 and encountered a roadblock at O-406347 at 1130B. A fire fight developed between a U.S. patrol and an enemy force consisting of 75/100 soldiers supported by 1 AT gun and an armored car in the vic of O-4036.

1st A/B Task Force. The enemy continued to work on his defensive positions in the ALP passes E of NICE. Aerial reconnaissance, however, continued to report only scattered M/T movement in the passes. Lst A/B TF reported 239th and 8th Inf. Regts. of the 148th Res. Div. still in contact.

(b) French Army "B".

I Corps.

On the Corps right flank the situation remained quiet; mopping up operations continued at BRIANCON (P-3937). The ST. MICHEL (K-2532) - MODANE (K-3930) road was reported heavily mined.

II Corps.

The French troops W of the SAONE river continued to receive stiff resistance S of BEAUNE (N-9028), and reported that the enemy was holding MOULINS (B-7674), DOMPIERRE (S-0370) and DIGOIN (S-2766) as a flank guard to the evacuation of the area W of DIJON. Two German troop trains were captured, including 600 PW's, 2 tanks and 1 at gun at MONTCEAU LES MINES (S-5587) by the FFI.

c. Miscellaneous.

(1) Movement.

At 061830B, 700 Germans were seen moving E on the road between O-568440 and O-596447, and at 061915B, 2 separate columns of enemy bicycle and foot troops and horse-drawn artillery were observed moving E on the highway from LA BARRE (O-5344) to DAMPIERRE (O-5745). A large HD column moving North at O-2523 and a large convoy moving northeast in vic O-3340 were observed at 071830B. A large column of HD vehicles and arty were seen moving northeast vic O-6566 at 1100B. Two further enemy columns moving northeast at O-6853 and at O-6849 at 1400B and 1800B respectively.

(2) Rail Movement.

Thirty trains, one of which was armored, all loaded with material, were reported by agents to be held up at 1100B on 6 September by a knocked out bridge just E of MONTBELIARD (P-3688).

3. MISCELLANEOUS.

a. Maj. Gen. SCHMIDT.

Gen. Maj. SCHMIDT was reported killed on September 6th by U.S. MG fire while he was enroute from DIJON to BESANCON. He was reported to be scheduled to take command of the 159th Res. Div.

b. Weather Forecast.

Upper Rhone Valley to Belfort, Period from 080001 to 090001 Sept.:
Clear at night, scattered clouds in morning, increasing in afternoon. Low clouds topping mountains in afternoon. Scattered thunder storms in afternoon. Visibility, unrestricted. Surface wind SW to W, 15m.p.h. Temperature cool.

Further Outlook, September 10th.:
Scattered, low clouds and scattered showers in afternoon.

4. ENEMY CAPABILITIES.

No Change.

WILLIAM W. QUINN
Colonel, G.S.C.,
A. C. of S., G-2.

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Final Interrogation Report

HISTORICAL SECTION OF THE OKL

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KO-30236

CONTENTS

		Page
1.	REFERENCES	1
2.	PERSONAL DATA	1
3.	ADMINISTRATIVE DATA	1
4.	INTERROGATION RESULTS	1
	a. Introduction	1
	b. Development of Historical Section	1
	c. Personnel	2
	d. Commander	2
	e. Organization of the Historical Section	2
	f. Type of History Prepared	2
	(1) Purpose of Military History	2
	(2) Aerial Warfare History	3
	(3) The Work of Section Eight	3
	g. Use of Material Produced by the Historical Section	3
	h. Possible Reconstruction of the Material of the Historical Section	4
5.	CONCLUSIONS	4
6.	COMMENTS AND RECOMMENDATIONS	

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KO-30236

1. REFERENCES: None

2. PERSONAL DATA

a. Surname: HITTMAN

b. Christian Name: Karl

c. Alias: None

d. Date and Place of Birth: 1896 in FRANKFURT/MAIN

e. Nationality Claimed: German

f. Occupation: Industrial Merchant

3. ADMINISTRATIVE DATA

a. Source: Tenth Armd Div

b. Date of Arrival: 15 May 45

c. Briefs upon which Prisoner was Interrogated: Special Communication; Subject, "EDI for War History Section of OKL", dated 3 Aug 45; Interested Agency, Seventh Army Historical Section.

4. INTERROGATION RESULTS

a. Introduction

HITTMAN was born in FRANKFURT/MAIN and is 49 yrs old. He served in the First World War. After his discharge, source was an industrial merchant, until his recall to active duty in 1935. He joined the Air Force and rose to be deputy commander of the Historical Section of OKL.

Rating: C-3 Interrogator: RM

b. Development of Historical Section

From 1919-33, there was no systematic plan for the filing of documents on the history of the Air Force in World War I. A separate department in the National German Archives was established for the Luftwaffe in 1934, and the editing of the Luftwaffe's World War I History was begun. This department was converted into the Sixth Section of the OKL (Luftwaffe High Command) in 1936. The work remained the same, and the first volume in the series of "Blue Books" was published.

During the period 1938-43, the work was still mainly concerned with the recording of the history of the First World War and seven volumes of the "Blue Books" were published; but toward the end of 1939 the work on the material concerning World War II began. In 1938 the section was converted into Section Eight of the Air Force High Command. The material on World War I was dropped, and all efforts were concentrated on World War II and on educational efforts to broaden the scope of instruction in matters of military and general history.

c. Personnel

Personnel had to be drawn from that already inducted into the Luftwaffe; it was not possible to draft civilians directly for work in the Historical Section. Above-average intelligence and a good educational background were required, and special preference was shown to officers who had experience as writers in civilian life. It was not necessary to be a member of the Party.

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d. Commander

The whole section was commanded by GENMAJ (Brig Gen) ROHDEN, under whose control and direction the historical work was conducted. MITTMAN was deputy commander under ROHDEN.

e. Organization of the Historical Section

Section Eight had six subsections, organized as follows:

(1) AUSWERTUNG (Evaluation)

(2) KRIEGSGESCHICHTE (War History) Worked mainly on the preliminary preparation for the work to be executed after the war.

(3) WEHRWISSENSCHAFTLICHE GRUPPE (Military Science Section) Studied developments of science, economics, geology, geography, transportation, etc.

(4) BILDGRUPPE (Photographic Section)

(5) TECHNISCHE GRUPPE (Technical Section) Recorded the history of all technical developments.

(6) ARCHIV (Archives) In charge of all filing and organizational questions.

f. Type of History Prepared

(1) Purpose of Military History

MITTMAN stated that military history has no purpose of its own, but serves as a means of explanation. The scope, shape and content of historical material is greatly influenced by the purpose which it serves. The following are the aims of military history:

(a) Basis and source for general World History.

(b) Fundamental medium for the education and orientation of commanders and officers of the armed forces.

(c) A responsible account of a war to one's own people.

As a consequence of the above listed aims, the following, according to source, are the types of military history:

(a) A broad political history of the war

(b) History of the military strategy of the war

(c) History for the education of the people.

(2) Aerial Warfare History

The history of aerial warfare is one of the most vital factors in guiding research, planning, arming, and training of an air force. Since aerial warfare is a highly technical weapon, source pointed out that the lessons derived from its history are not constant and must be continually modified. Strategy, tactics, and technical developments exert a greater influence on the air arm than on any other branch. As a matter of fact, an entire history of aerial warfare could be written from the technical standpoint alone.

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Aerial warfare, it was felt, should be studied as a part of the whole of military history, since an account of air war must at the same time be an account of war on the land and on the sea. Aerial warfare is therefore a part of military and naval history, only seen from different points of view. Thus, it is the air battle rather than the skirmish, the air operation rather than the battle, a phase of air warfare rather than the operation. The commitment of the air arm in any campaign is a part of the whole and consequently must be evaluated as such. For any educational value to be obtained from a history of an airforce, MITTMAN stated, it must keep up with the actual military phases of the war, that is, with the history of it.

(3) The Work of Section Eight

The following projects were undertaken by Section Eight:

(a) Review of the Air War from 1939-45

(b) Detailed accounts of the air war against Poland, Norway, England, France, Russia, and in Italy, in Africa, and in Germany, comprising 15 manuals

(c) Special manuals as guides for the instruction of the officers

(d) Publication of individual pamphlets on various phases of the history of air war

Some of the projects had been completed, while others remained unfinished at the end of the war.

According to the source, the members of the Historical Section attempted to remain objective at all times in their documentation. Although they were subject to the usual German censorship regulations, they were not, in general, disturbed a great deal; and they never had any interference from political quarters in the execution of their task.

g. Use of Material Produced by the Historical Section

The German Air Force never used the material produced by Section Eight or any of its antecedents to any great extent; they either ignored it or took it in to account too late. The slow development of the Historical Section with its many changes in policy and personnel was one of the factors producing this disregard of the Section's material. Most of the Section's assignments came too late, four years too late according to MITTMAN. A lack of understanding on the part of the Air Force officers, who displayed a very narrow frame of mind, particularly in the keeping of war journals and other military notations, and the lack of coordination among the various Luftwaffe administrative and command channels also contributed to the non-use of the material of Section Eight.

h. Possible Reconstruction of the Material of the Historical Section

The Section made several moves at the end of the war. It had originally been located in BERLIN; it later moved to safer quarters in Thuringia, Czechoslovakia, Bavaria, etc. The attack of the Allied Forces came so rapidly that it was necessary to destroy a great deal of the material enroute between KARLSBAD and Bavaria because of transportation difficulties. Fifty cases arrived in Bavaria in the vic of VORDERRIESZ, near BAD TOELZ under the command of the source. Source had specific orders to destroy the rest of the material when our troops came into the vicinity. He succeeded in burning all of the important material. Some of the remaining material of little importance, maps etc, was stored in a forester's office or some barn at VORDERRIESZ.

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The source gave the following suggestions for the reconstruction of the material of Section Eight:

(1) Immediate gathering and evaluation of historical documents captured by the Allies.

(2) Procuring some of the files of Section Eight which are in places such as ZARLSBAD, HALDBURG, BAD GEBLING, LANGRIES, VORDERRIBZ, and HINTERRISS.

(3) The writing down of their experiences by all high commanders and general staff officers in a prescribed form.

(4) Similar orders to all leading figures engaged in the development of the air war.

(5) The compilation of Allied documents on this subject by the various responsible Allied agencies.

(6) Coordination of the work pertaining to the Luftwaffe with that of the German Army and Navy.

(7) Compilation and evaluation of Wehrmacht news releases.

(8) Compilation and evaluation of German and foreign, including neutral, news releases and motion picture documentation.

(9) Compilation and evaluation of any and all information concerning the air war as represented in press reports, radio bulletins, etc.

5. CONCLUSIONS

None

6. COMMENTS AND RECOMMENDATIONS

MITTMAN was evacuated to the Second Air Disarmament Wing, APHIU, 17 Jul 45.

5 Oct 45

SEVENTH ARMY INTERROGATION CENTER

Paul Kubala

PAUL KUBALA,
Major, MI,
Commanding.

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2632 INTERROGATIONS REPORTS - HQ VII US ARMY WU500,CSDIC, G-2

682.611-1
FEB-JUL 1945

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HQ VII US ARMY MU500,GSDIC, G-2

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Ref No SAIC/PIR/210
24 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

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SOURCE: SCHEIDT, Dr Wilhelm Heinrich, HPTM (Capt), Official Historian of the OKW (Armed Forces High Command).

1. PERSONAL DATA

28 Aug 1912	Born in KREFELD on the Rhine.
1931	Graduated from GYMNASIUM in STUTTGART/CANNSTATT.
1931-36	Studied history, political science, philosophy, and Germanism at the Universities of FREIBURG, FRANKFURT a M, and BERLIN.
1934-37	Assistant in the military history section of the History Dept at the University of BERLIN.
5 Jul 36	Received Ph D.
1937	Published first book entitled, "Of GOETHE's Wisdom for History" ("VON DER WEISHEIT GOETHES FUER DIE GESCHICHTE").
1937	Awarded scholarship of the "NOTGEMEINSCHAFT DER DEUTSCHEN WISSENSCHAFT" (a distinction equivalent to the Rhodes scholarship).
1 Apr 38	Received commission of 2d Lt in the Reserve Corps.
1 Jun 38	Entered OKW as research historian, later promoted to section chief.
1939	Published second book, "The Defense of Central Europe in the Era of Prince EUGEN".
1 Sep 39	Transferred as 2d Lt to 8 Pz Rcn Bn.
to Apr 40	With 5 Pz Div, participated in Polish campaign.
May-Sep 40	Assigned to Hq C in C of the Armed Forces in the protectorate of Bohemia and Moravia.
Oct 40-Jan 41	Assigned to Armed Forces Operational Staff, worked on war diary.
1 Feb 41	Assigned to Armed Forces Operational Staff Historical Section. First in charge of the CHEFGRUPPE (main group), later in charge of the central office in BERLIN and adj to the "FUEHRER's representative for military history".
1 Apr 44	Promoted to Capt.
1 May 45	Discharged from German Army.

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2. ADMINISTRATIVE DATA

Source arrived at SAIC from 307 CIC Det 13 May 45 on authority of G-2 Seventh Army. Documents: Manuscripts which were to be the basis for the official diary of the German Armed Forces covering all theaters of war for the period from Jan 43 to Mar 45; several German history books; and a collection of official German communiques for the year 1942.

3. KNOWLEDGE BRIEF

SCHEIDT was the scientific advisor and the person responsible for the work of Gen SCHERFF, head of the Historical Section of the OKW. This section served at the same time as the archive of the OKW. It was HITLER's idea to have the history of the war written not only from available records but from an eye witness account of the functioning and activities of the Armed Forces High Command. For this reason Gen SCHERFF and Dr SCHEIDT were to be currently informed of all important and even the most secret decisions, plans, motives, and orders. Therefore, Gen SCHERFF, or quite often his representative, Dr SCHEIDT, attended all of HITLER's military conferences. Dr SCHEIDT received complete reports of all of HITLER's conferences and the documents of the adjutant of the Armed Forces Operational Staff. The most important offices of the OKW were under order to close their diaries at the end of each month and hand them over to SCHEIDT. Every situation map used at the daily military conferences was submitted to SCHEIDT within 24 hours. In addition he received separate copies of the most important orders, and the diaries of the Army General Staff, army groups, armies, etc. were made available to him in the same manner.

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On the basis of this knowledge SCHEIDT decided which documents were to be kept in the archives and he directed the research and compilation of material for future historical writings. The proposed history was not to begin with the outbreak of the war, but with the start of rearmament in 1933.

The activities in this field were extended when SCHERFF was promoted to Brig Gen at which time he was charged with the direction of all scientific sections of the army and given jurisdiction over the historical sections of the Luftwaffe and the navy. To handle his enlarged duties SCHERFF installed his chief assistant, SCHEIDT, in a centrally located office in BERLIN where he could regulate the work of all other agencies. The work had by this time become so intricate that SCHERFF delegated the major portion of it to his technical assistant, SCHEIDT. SCHEIDT, furthermore, handled all inquiries from HITLER's Hq, supplying the answers and necessary reference material.

In his capacity as official member of HITLER's Hq, SCHEIDT was able to acquire an intimate knowledge of all important problems and events involved in the political and military scene. Since he had access to the most confidential and personal documents, such as personal diaries of the leading generals and shorthand reports of converstaions between HITLER and non-military personages such as Armaments Minister SPEER, source's knowledge is enormous.

None of the war history had been published during the war as it had been contemplated to withhold the actual writing until after the completion of hostilities. However, among his colleagues it was generally considered that SCHEIDT was the man to do the writing. His technical abilities were equally recognized among the generals, and Gen JODL at one time requested SCHEIDT to write a speech which JODL delivered describing the events of the war up to Nov 43.

SCHEIDT, in addition, can furnish information on:

a. HITLER as a strategist.

b. The German High Command, actions and relationship with HITLER.

4. INTERROGATION PLAN

At present source has completed approximately 200 pages of what will eventually be a 400-page detailed history of the campaigns in Western Europe, 1944-45.

5. COMMENTS AND RECOMMENDATIONS

a. Source will complete the detailed history of the campaigns in Western Europe that he is now writing.

b. Attention of historical sections of higher Hq is called to this source.

c. Recommend that source be released for the purpose of exploiting fully, captured enemy documents.

Recipients of this report are requested to submit special briefs of any subject upon which this source should be interrogated and to indicate the desired distribution of the resultant report.

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Ref No SAIC/PIR/157
12 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: OEHL, Dr Eduard, attorney and industrialist

1. PERSONAL DATA

Source was born 3 Oct 1900 in NUREMBERG. He studied law at the universities of ERLANGEN and BERLIN, and after receiving his degree in 1926, started his own law practice in NUREMBERG. His practice was interrupted in 1938 when he was drafted. He took part in the Polish campaign as platoon leader. After having been discharged in Aug 40, OEHL was recalled in May 41 as Lt and adjutant of a maintenance bn. As adjutant he was active in bn, regt, div, and finally with the spare parts section of the maintenance branch of the OKH and the OKW. He reached the rank of Capt of the reserve.

As attorney he specialized in traffic laws, insurance cases, penal code, divorces, and management of property. He also acted as legal counsel for the GEISMANN Brewery at FUERTH and the DEUTSCHE AUTO RECHTSSCHUTZVERSICHERUNGS AG, MUNICH. From Aug 39 to May 42 source was a member of the board of trustees of the ARDIE MOTOREN AG, NUREMBERG. While in this post he formed the firm of N. RIEDEL. RIEDEL was a young engineer and technician with ARDIE motors, who developed a starting apparatus which could be used for the ME 262, HE 162, and the Arado 234. OEHL financed the venture and became 40% owner of the firm. In the summer of 1944 the plans of the RIEDEL starter were turned over to the Japanese for a sum of RM 2,500,000 which was never paid.

OEHL joined the Nazi Party in Jan 34. Source is very cooperative and willing to work with Allied authorities claiming he is sadly disappointed and shaken by the now apparent corruption of the HITLER regime.

2. ADMINISTRATIVE DATA

Source was arrested by 42 Div CIC Det and arrived at SAIC 29 May 45 on authority of G-2 Seventh Army. Documents: WEHRPASS, check book, two letters, file of financial transactions, three files of business correspondence, file of personal papers.

3. KNOWLEDGE BRIEF

Transfer of jet-propelled aircraft plans to the Japanese. Does not know technical workings of the starter which RIEDEL developed and which was used in the German jet-propelled models.

4. INTERROGATION PLAN

Interrogation will follow knowledge brief.

5. COMMENTS AND RECOMMENDATIONS

Recommend that RIEDEL be interrogated by APWIU, 2 AD Wing on the technical aspects of the RIEDEL starter mechanism.

Recipients of this report are requested to submit special briefs of any subject upon which this source should be interrogated and to indicate the desired distribution of the resultant report.

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Ref No SAIC/PIR/145
10 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: LUCKOW, Herbert, Director, LUFTFAHRTSFORSCHUNGSANSTALT (Aviation Research Institute), MUNICH.

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1. PERSONAL DATA

LUCKOW was born 18 Aug 1912 in BERLIN. He completed high school in 1929 and worked in the Graham-Paige plant in BERLIN for the next two years. From 1931 to 1933 he was unemployed except for occasional jobs as a chauffeur. In 1932 he entered the NSDAP and the SA and was active in both until 1934; he claims he ceased to be active in the Party and was ejected from the SA. From 1934 to 1937 he worked for the DEUTSCHER TECHNISCHER VERBAND (German Technical Society), first as a chauffeur and later as manager of a camp for unemployed engineers. In 1937 he was employed by the INGENNIEUR SCHULE FUER LUFTFAHRT TECHNIK (Aviation Engineering School), which was founded in that year in DARMSTADT. He remained with this school as employee and part-time student until 1940, when he graduated. In the next two years he was employed in various capacities in aviation research. Source was drafted into the army 3 Mar 43 but immediately received a work furlough which was terminated by a discharge in Feb 45. Since May 42 he has been employed by the LUFTFAHRTSFORSCHUNGSANSTALT (Aviation Research Institute) in MUNICH, becoming a director about a year ago. He was one of two directors; the other director was in charge of the technical work while LUCKOW was in charge of the administration of the institute.

2. ADMINISTRATIVE DATA

LUCKOW arrived at SAIC from APWIU, 2d AD Wing 27 Jun 45 on authority G-2 Seventh Army. Documents: Travel permit, two passes to research institutes in BERLIN and MUNICH, chronological life history.

3. KNOWLEDGE BRIEF

Research carried on at Aviation Research Institute in MUNICH.

4. INTERROGATION PLAN

No special interrogation planned.

5. COMMENTS AND RECOMMENDATIONS

LUCKOW has already been interrogated by APWIU, 2d AD Wing.
Recipients of this report are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desirable distribution of the resultant report.

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Ref No. SAIC/PIR/125
7 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: DOERNEMANN, Karl, General Manager of Continental Metal AG.

1. PERSONAL DATA

Born 29 Jan 01 in WANNE-EICHEL, DOERNEMANN attended high school and business college, majored in sales. He established his own business handling motors and electrical equipment. He then entered Continental Metal AG and advanced to his present position of general manager and corporation head. He had under his supervision 14 plants of various types, chiefly manufacturing plane parts. He was inducted into the army in 1939 as a 2d Lt, but was recalled as an essential war worker by his plant 9 Oct 40.

DOERNEMANN first showed interest in the Nazi movement in 1926 and officially joined the NSDAP late in 1930. He was in the NSKK and was SA BRIGADEFUEHRER (Brig Gen) in MELSUNG. He claims he was involved in the ROEHM affair and was forced to give up his position in 1934-35. He maintains that he was to be executed; yet he went to FRANKFURT as SA BRIGADEFUEHRER and was relieved of this command only in 1938 after differences with the Party and the German Metal Union.

2. ADMINISTRATIVE DATA

DOERNEMANN arrived at SAIC 1 Jun 45 on authority G-2 Seventh Army. Documents: WEHRPASS, RR permit, Z card (application for deferment), business letters, and a letter to the American commandant of STUMM.

3. KNOWLEDGE BRIEF

a. German aircraft production.

b. SA personalities in FRANKFURT.

4. INTERROGATION PLAN

Interrogation will follow b. of knowledge brief.

5. COMMENTS AND RECOMMENDATIONS

DOERNEMANN has been interrogated on propellors, high temperature metals, and dies and casts. He has also written a detailed report on his plant organization and its place in aircraft industry. Source may be of interest to APWIU, 2d AD Wing.

The recipients of this report are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desirable distribution of the resultant report.

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Ref No SAIC/PIR/118
7 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: RACKL, Karl, aerial photography specialist.

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1. PERSONAL DATA

RACKL was born in MUNICH 18 Jan 15, and studied architecture at the Institute of Technology in MUNICH. Serving in the army on and off, he was retained as an aerial photo interpreter during the Greek campaign in 1941. A young idealist and intellectual, he was twice penally transferred to the front because of negligence and lack of military ambition. He was given several missions of developing and evaluating photo projects for use in mountainous terrain, notably the Caucasus, Balkans, and Italy, but each time he managed to evade the job. While in SALZBURG, source managed to intercept the order commissioning him to produce the photo project on the Caucasus.

RACKL is very cooperative and willing to give any information in the field of aerial photography, stereo-photography, and stereo-grammetry. He has developed several types of apparatus for use in stereo-photography, and is willing to turn over all equipment for examination or possible use.

2. ADMINISTRATIVE DATA

RACKL reported voluntarily to US authorities in BAD AIBLING 3 May 45 and arrived at SAIC 14 May 45 on authority of G-2 Seventh Army. The following documents were in his possession:

a. Training manual DAS LUFTBILD IM DIENST DES HEERES (The Aerial Photo in the Service of the Army).
b. Patent application for his "Universal Reflector Stereoscope".
c. Patent application for his process of reproducing regular aerial photos in 6 x 13 cm size.
d. Report on RACKL's demonstration before the 527 Mtn Res Regt.
e. Telegram from 1st Lt PFANNENSTIEL requesting equipment from RACKL.
f. Letter to RACKL from Major Dr JACOBI.
g. Report on process of determining from aerial photos the scale and plane altitude necessary for measuring elevations in mountainout terrain.
h. Mimeographed form for production of small area pictures.
i. Reproduction of diagrams concerning distance of observation for stereo photos, basic variations of stereo pictures, apparatus for reproducing aerial photos, and preparation of original aerial photos.
j. Report on the evaluation of project "OREL".
k. Letter from Col KOPECKY of the surveying office in VIENNA.
l. Folder containing directions, reproductions, and reports concerning LACHNER process.
m. Wallet of 6 x 13 stereo pairs and stereoscopes.
n. Nine aerial photos, maps of Alpine areas, and a notebook.

3. KNOWLEDGE BRIEF

a. Organization of the aerial photo branch of the WEHRMACHT.
b. Processes of determining points by means of triangulation of aerial photos.
c. Measurement of elevation by means of the stereo micrometer and reflector stereoscope.
d. Determination of directions and compass designations by means of a direction polygon.
e. RACKL process for reproducing aerial photos in reduced 6 x 13 cm size.
f. Method of production of terrain models to scale from stereophotos.
g. Determination of distortions and deformations by the use of stereoscopic methods.

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4. INTERROGATION PLAN

Initial interrogation will follow point a of knowledge brief only.

5. COMMENTS AND RECOMMENDATIONS

Recommend that source's knowledge be exploited by an expert in aerial photo interpretation and a specialist in surveying.

The recipients of this report are requested to submit special briefs of any subject upon which this source should be interrogated and to indicate the desired distribution of the resultant report.

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6 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: SCHUMMER, Hans, SS OSTUF (1st Lt), X-ray expert.

---

1. PERSONAL DATA

Born 30 Jul 12 at TEMESCHBURG/BANAT, Rumania, SCHUMMER studied electrodynamics at TECHNISCHE HOCHSCHULE in PRAGUE. He worked for SIEMENS & HALSKE in BERLIN 1937-39, building X-ray machines for examination of metals and plastics.

He joined the WAFFEN SS in Oct 39 because he wanted to become a German citizen and worked up the ranks to 1st Lt. He was furloughed from the SS in 1941 and was sent to VIENNA, where he helped organize the KRAFTFAHR TECHNISCHE ANSTALT (Automotive Technical Institute) patterned after the KAISER WILHELM INSTITUTE in DRESDEN. Here he continued his X-ray work, testing materials. He also did some work for Dr LIPPICH, MESSERSCHMITT research engineer, who was working on the problem of building wooden planes.

2. ADMINISTRATIVE DATA

Source was arrested by 215 CIC Det 20 May 45 at ST WOLFGANG vic SALZBURG and arrived at SAIC 22 May 45 on authority G-2 Seventh Army. Documents: SOLDBUCH, driver's license, labor identity card, military discharge, marriage certificate, birth certificate, diary, misc letters and notebooks.

3. KNOWLEDGE BRIEF

a. X-ray testing of materials.

b. KRAFTFAHR TECHNISCHE ANSTALT, VIENNA.

c. Use of plastics and wood in aircraft.

4. INTERROGATION PLAN

Recommend interrogation by qualified experts.

5. COMMENTS AND RECOMMENDATIONS

The recipients of this report are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desirable distribution of the resultant report.

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Ref No SAIC/PIR/113
6 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: SELLSCHOPP, Heinrich, GENERALINGENIEUR (Engr Brig Gen), aeronautical engineer of the Air Ministry.

---

1. PERSONAL DATA

SELLSCHOPP was born 8 Apr 03 in SATOW/MECKLENBURG, attended GEWERBEAKADEMIE (trade school) in CHEMNITZ 1922-26 and TECHNISCHE HOCHSCHULE in BERLIN and MUNICH 1926-30. He worked for HEINKEL FLUGZEUGWERKE in WARNEMUENDE. In 1933 he joined the Nazi Party and went to the LUFTMINISTERIUM (Air Ministry), where he was in charge of planning production. He was personally responsible for procuring aluminum for aircraft.

Source says he took part in a plot against HITLER which began in Oct 43. He is cooperative and seems sincere.

2. ADMINISTRATIVE DATA

SELLSCHOPP was arrested 7 May 45 vic STARNBERG by 206 CIC Det and arrived at SAIC 27 May 45 on authority G-2 Seventh Army. Documents: SOLDBUCH.

3. KNOWLEDGE BRIEF

a. Production planning of Air Ministry.

b. Procurement of aluminum.

c. The plot against HITLER.

4. INTERROGATION PLAN

Interrogation will proceed on 3c. Recommend interrogation by technical experts on 3a,b.

5. COMMENTS AND RECOMMENDATIONS

The recipients of this report are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desired distribution of the resultant report.

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STRATEGIC SERVICES UNIT, WAR DEPARTMENT

WASHINGTON, D. C.
INTELLIGENCE DISSEMINATION

		NUMBER	A-67275
COUNTRY	Germany	ORIGINAL RPT.	L-1313
SUBJECT	Recruitment of German Military Personnel in France	DATE OF INFO.	Jan.-Feb. 1946
		DATE OF RPT.	18 March 1946
		DISTRIBUTED	2 May 1946
ORIGIN THEATRE	Germany	CONFIRMATION SUPPLEMENT	
SOURCE	Z		
SUB SOURCE	German PW	NO. OF PAGES	
EVALUATION	F-0	ATTACHMENTS	

The source of the following information is a German flight sergeant who was released from PW Enclosure 402 in Thorée-les-Pins in February 1946.

1. Source reports that early in February 1946, civilian employment in the French aircraft industry was offered to PWs who had been assigned to one or the other of the following operations during the war:

Operation Enzian	Operation Silber
" Walter	" Panzerfaust
" Wasserfall	" Lili
" Orkan	

2. Source was unable to report if any of the PWs in PW Enclosure 402 qualified for such employment. However, in early January 1945, a certain Peters who, as a test pilot for the Messerschmitt plant had carried out the initial experiments with the ME 163, was transferred to Paris and given an assignment as a test pilot with the French air forces.

3. Also present at PW Enclosure 402 was a certain Dr. Maund who had been assigned to Operation Enzian during the war, where he did important research work in connection with a new type of fuel. Dr. Maund was transferred to a PW enclosure in the US Zone in November 1945. Source has heard that Maund has since been released.

4. The French intelligence officer at PW Enclosure 402 was Lt. Roche.

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5 Jul 45

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SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: BEHR, Hans von, Industrialist and SS HPTSTUF (Capt)

---

1. PERSONAL DATA

Subject was born 1907 and attended the Technical College in MUNICH where he took a business course. He was employed in 1926 as apprentice in a HAMBURG export house; from 1927 to 32 he was connected with the MALDA Corp of GABLONZ, Czechoslovakia, manufacturers of costume jewelry, in which he had a financial interest. During this time he made trips to Spain, England and the US allegedly to establish business relations in these countries. From 1932-38 he was manager of the CHEMI-METAL Corp of KRAKOW, Poland. This corp had interlocking interests with the ERDAL shoe polish concern of MAINZ, Germany. During this time subject lived in VIENNA where he established a purchasing office. From 1938 to 1945 he was director of the ALTSEE-OLLESCHAU Corp, VIENNA, manufacturers of cigarette paper.

Subject claims he joined the Party in 1938. In the latter part of that year he also became a paying member of the SS in OBERABSCHNITT, VIENNA, and seems to have supported the SS with large sums of money although he attempts to white-wash his activity in the SS. In 1943 he was commissioned to build a fuel factory for the SS near VIENNA, and he was retained as technical expert for the project, although he had no prior training in this field.

BEHR also promoted several other schemes. In 1944 he called together a number of scientists from VIENNA and other parts of Germany to work on the development of a new fighter plane with the ultimate aim of establishing a factory in VORARLBERG. The project was financed primarily by the SS which put up nearly a million marks for the scheme. Subject invested about 30,000 marks. The project reached the test flight stage, which subject claims was very successful. He states that he turned over the four planes and complete plans and blueprints to the 44 Div in IMST.

Subject claims he had interests also in a turbine engine for vehicles and boats which can be run on any kind of raw oil, and a bullet- and accident-proof tire on which work was done near BERLIN.

2. ADMINISTRATIVE DATA

Subject was arrested by the 44 Div CIC Det on 9 Jun 45 and delivered to SAIC same date on authority of G-2 Seventh Army. Documents: Driver's license; passport; arrest report; correspondence pertaining to the fighter plane engine "NATTER" and the turbine engine mentioned in par 1.

3. KNOWLEDGE BRIEF

a. New fighter plane.

b. New turbine engine.

c. Bullet-proof tires.

4. INTERROGATION PLAN

Subject already has been interrogated on technical matters by a CIOS mission. Further interrogation will be made on source's relationship with SS; and his financing of SS projects.

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5. COMMENTS AND RECOMMENDATIONS

Subject apparently was a promoter, clever business agent for technical experts he assembled with the view of reaping the major benefits of their knowledge and work. From his educational background it appears that subject cannot be too familiar with technical problems, and any attempt to present himself as a scientist or as the possessor of valuable scientific data is questionable. Despite his close connections with the SS he attempts to white-wash his activities and claims that he was never active politically.

Recipients of this report are requested to submit special briefs of any subject upon which this source should be interrogated and to indicate the desired distribution of the resultant report.

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ANSWERS TO QUESTIONNAIRE IV, SECTION 6

No.17a.

Question - Were ~~any~~ key G.A.F staff officers or commanders ever appointed to their positions because of political or party contacts?

Answer - "I have no personal knowledge of any precise air staff officers or commanders being appointed to ~~good~~ key positions through the influence of ~~the~~ high party officials. In the case of air staff officers, this certainly did not occur. They were selected according to their achievements and aptitude. With regard to the appointments on air staff; the chief of air staff sent his demands or instructions to the Director of Personnel. In the case of demands being made by departments to the latter, recommendations were sent by him to the Chief of Air Staff. When the authorizations of the Chief of Air Staff had been obtained, appointments were promulgated by the Personnel Office. I believe that the Director of the Personnel Office occasionally informed the Reichsmarshall in cases where the appointments of Chiefs of air Staffs of Luftflotten was under consideration. I made all my own decisions in this matter without informing the C. in C., as I resented interference and wanted to prevent the influence of non-duty and unjustified reasons. For myself, only efficiency and achievement were decisive, During my term of office as Chief of the General Staff, the C. in C. never interfered with my decisions. In one case he forced me to include in the General Staff an officer of his personal entourage whose character I considere utterly unsuitable and who had had no training whatsoever in general staff work. Occurances at a later date showed how correct my judgment had been at the time. Neither a party office nor a high ranking party official ever attempted to influence my methods of appointments nor the decisions required for this task. Had ~~those~~ attempts been made, I would have repressed them strongly. This was the position during my term of office. I believe I can state the same where General Voerten is concerned. I do not know whether any attempt was made by the party to influence the Director of Manpower and National Socialist leadership in office at the time. The appointments of the General Staff of the Air Force were made by the Reichsmarshall himself. They were approved or rejected by the Führer. There is no doubt that the Reichsmarshall was strongly influenced by his entourage.

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I do not know whether Party officials were among those who influenced him, but, judging by various signs, it can be presumed that this occurred.

If, for example, alterations in the appointments of command posts in the Army or changes in the leadership were mentioned or discussed by the Führer, or if one name or another were mentioned by the OKW or OKH or General Burgdorf, it happened that one or the other member of the Supreme Party Directorate either agreed or made some restricting remark such as, "Oh, yes, I know him. He is a good man". Or else, "I don't like him particularly". The appointments in the Army were discussed during the high command conference, because the Führer was C. in C. of the Army. Alterations of the appointments to the high command posts of the Air Force were hardly ever mentioned when the participants were present, but submitted to the Führer alone by the Reichsmarshall if not brought to the Führer through Below (Adjutant of the Air Force to the Führer). In the Air Force it was certainly not the case that party officials attempted to influence the higher appointments. The party was absolutely satisfied because a party member and former chief of the S.A., at one time second man in the party next to the Führer, was the C.in C. of the Air Force. It did happen that in individual cases officers or officials in important positions, who at one time or another were disliked by the party for one reason or another, were harrassed to such an extent that they were finally replaced in their own interests.

On the other hand, the Director of Manpower and the National Socialist Leadership together with the Reichsmarshall attempted, when appointments to higher positions were to be made, (e.g. Luftpark commands), and when frequent contact with the party was unavoidable, to consider not only capability, but to try to prevent the appointment of those persons who, from the beginning, would not be found acceptable by the party leaders. Whenever there was a choice, one accepted bearers of the "blood order" in the first place, who were former members of the S.A. or former party Officials. But that choice was very limited as only small numbers of them were members of the Air Force. Unfortunately, it was found that some commanders and occasionally also a General Staff Officer, systematically tried their utmost to make a good impression on high party officials whenever they came into contact with them during the course of their duty, so as to ensure personal safety, obtain a higher position in the force or other advantages, But this type was soon recognized by superiors and

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comrades and treated with great reserve. Thank God there were only a few of those creatures. It also happened that commanders or other high ranking officers whom the Air Force wanted to dismiss on account of their inefficiency, used their connections with high party officials to have the Führer or the C. in C. cancel those decisions. I know of one case where that happened repeatedly.

Towards the end of the war with the reinforced build-up of the so-called National Socialist Leader Groups, I know it happened frequently that the Directorate of the party was consulted when appointments of N.S. Directorate Officers were considered. (The Reichsleiter Bormann was not very happy about the whole thing and General Ritter von Hengl, NSFO of OKH, resisted his overstrung efforts considerably and made him swallow many a bitter pill.)

Question 17b - Were the German Air Force Commanders and German Air Force Staff Officers well qualified for the positions they held?

Answer - a. General Staff Officers

1. The General Staff of the Air Force had to be built up from nothing in a few years. Furthermore, training establishments had to be set up first, Instructors were not easy to find and even they had to undergo a period of orientation. Because of this, mistakes and misplacements naturally happened throughout the years. To meet the activation demands, Army General Staff Officers or cadets fresh from the Military Academy were transferred to the Air Force. Although some good officers were posted to the Air Force from the Army during the initial period, the Army later on refused to release officers whom it considered to be of first class material. Nevertheless, many of the officers transferred to the Air Force made a good showing later on. These officers had first to undergo flying training and thus become acquainted with the problems of personnel whose activities were connected with flying operations. Former Air Corps officers of World War 1 were, for the most part, too old, and lacked the necessary experience for consideration as prospective General Staff Officers. Moreover, they were all needed as troop commanders. Only a few individuals, who were very young pilots in World War 1 and who had undergone further military training during the intervening years, were available to serve on the General Staff upon

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completion of additional training. Furthermore, additional personnel from the Navy (Fleet Air Arm) and the new Air Force, had to be conscripted. The need was urgent, the time short, and the training courses were often interrupted (occupation of the Rhineland, Austria, Sudetenland and Czechoslavakia). The rising generation needed two to three years to attain the proper level of operational, tactical, scientific, and technical training. This, however, was not a practical possibility in the short time available. for reconstruction. The longest pre-war courses were of the following durarions: Advanced Air Force School, four to six months followed by one year at the Military Academy with simultaneous attendance at the Technical Academy of the Air Force.

A high percentage of the earlier trained General Staff Officers ~~was~~ were lost in action at the front in the first two years of the war. During the war, training was often interrupted or permanently suspended because of the need for officers as well as for Officers for the General Staff. It was, indeed, continuously curtailed. A few courses lasted only four months. Moreover, the Academy ~~would~~ could absorb a comparatively small number of pupils. The formation of an Air Force General Staff was not completed at the time of the outbreak of war and could not be completed during the course of the war.

The size of the Air Force General Staff was limited. At the end of 1944, about 240 officers were included in the General Staff. Of this number, about 20 had outgrown their usefulness and others were to be eliminated for other reasons. I was thus engaged in the dismissal from office of all those officers listed above. About 40 on the list were engaged in line duties. Apart from all this, there was a group of officers who were ordered to duty with the General Staff to complete their training but who had not as yet been assigned. A second group off officers were in the process of training. All in all, there were about 320 officers. (I have given the figures from memory and they are therefore only approximate).

There were fewer General Staff Officers available than there were posts, and more officers were always being requested by troop commanders. Some commands which at first turned their backs on General Staff Officers could suddenly not get enough and requested a General Staff Officer for

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almost every unit. The ever-urgent desire to switch personnel back and forth between the front and the General Staff could be carried out only to a small extent because too few General Staff Officers were available, and, further, an officer formerly assigned to the General Staff could be relieved from his assignment only over the strong protests of his ~~her~~ superiors who fought to keep him.

Of course there were General Staff Officers who were not equal to their duties but their number was not great enough to jeopardize the effeciency of the Air Force. Had this been the case with an officer of the Troop General Staff or of the OKL (subordinate to the Chief of General Staff) it would not have passed without appropriate action having been taken. Young General Staff officers with short wartime training made themselves thoroughly conversant with their job during their term of office provided that their superiors took sufficient interest in them. Many of them, of course, were suitable for secondary positions only, and several, in due course, developed to the standard for higher posts. ~~The basis of selection for the filling of higher General Staff Posts was not on a grand scale.~~

Considering the training situation as described above, one must say that the General Staff Officers achieved more than could reasonably be expected. On the whole their achievements were satisfactory. They were modest (with few exceptions), cheerful, in their work, and devoted themselves to their ~~tasks~~ tasks with the utmost industry and self-sacrifice, depriving themselves of the many pleasures which fell to a great many of the officers in the field. Because of the restrictive orders of the High Command, most of the General Staff Officers, the young ones especially, from approximately 1942 onwards, found themselves in a disadvantageous position compared with their comrades on active service both as regards promotion with respect to and ~~distinction~~ awards, unless they were transferred to service at the front, in which case the same regulations applied to them as for the troops. Moreover, they were deprived of the best part of military life, such as having command of a Staffel, kompanie, battalion, gruppe, or becoming a Geschwaderkommodore. They often were the recipients of the ill-will of impudent, newly appointed commanders in the field, or other ambitious types, or were continuously and unjustifyably slandered

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by the C.in C., the Führer, (and not less by the higest offices of the Party) as a reactionary clique, a band of free masons, lazy-bones, milk-sops, traitors and what not, often threatened with court-martial. If the General Staff Officers had been given the choice of returning to the battlefront, not one would have remained. They would have gone joyfully, but those who had been caught were never again allowed to leave, least of all the best people, who were needed and could not be replaced. That they often, despite such insults, devoted themselves ceaselessly and tirelessly to their tasks, without consideration of their health, is proof, apart from a few exceptions, of their good character.

The compulsory acceptance by the C. in C. of certain very young officers into the General Staff who were without any training or who had spent only a few hours as guest students at the academy was a mistake. These officers lacked the comprehension required of a General Staff Officer and the necessary extensive knowledge of operations, tactics and organization of the other branches of the Wehrmacht. These qualifications are special requisites of a General Staff Officer in the Air Force, [illegible] and they cannot be replaced by ambition alone. Certainly, more could have been done to continue the training of the younger General Staff Officers to increase their capabilities and further enhance their suitability and value. The exceptional strain of the last six months of the war and the clearly visible outcome were responsible for the fact that many projects were not carried out and that the plans which had been drawn up with regard to this matter were dropped. The Luftwaffe, as all professions and all armies, had its good, bad, and indifferent leaders.

The wisdom shown in appointments to higher offices, although initially admirable, deteriorated during the course of the War. The problems confronting us at the beginning of the War became easier to solve after a clear and uniform organization of the service had been attained. However, the difficulties increased from year to year and finally from month to month. It was thought that the older commanders were partly no longer equal to the task and the younger generation was often not sufficiently experienced for the higher command posts. The selection basis for commanding generals of the Fliegerkorps and for Luftgau was very limited; the selection basis for division commanders

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was somewhat wider, but here especially a lack of highly efficient young officers for Fighter Division command posts was felt. Hitler showed a lack of knowledge of human nature. In addition during the term of office of the Director of Manpower, no satisfactory counsel could be given by him or the Reichsmarshall's immediate entourage. In addition the Reichsmarshall's lack of human understanding, personal relationships, friendships, unevenly-displayed good-will, the desire for easy-going people who would not make difficulties, all these may have influenced this matter. At this time, selection was no longer made only according to suitability. It seems that other reasons, often scarcely apparent to us, carried more weight. In some cases, persons especially promoted by the Reichsmarshall or the Director of Manpower, were unqualified for their positions.

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Ref N SAIC/PIR/94
5 Jul 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: GERLACH, Walter, Capt, GAF-AA, engineer and specialist for testing air-craft engines on various altitude conditions.

---

1. PERSONAL DATA

GERLACH, born 15 Jun 1914 at RIESA, vic DRESDEN, studied engineering at the Technical College in DRESDEN. In 1935 he entered the service, and was assigned to an AA unit in MUNICH; in 1938 he was discharged with the rank of 2d Lt. He continued his studies at the Technical College in DRESDEN for another year, and was reinducted into the LUFTWAFFE-AA in 1939. In Oct 40 GERLACH received permission from his unit to return, as a soldier, to DRESDEN in order to finish his studies there at the Technical College; he took his examination as engineer in 1941, and was then sent back to his unit. In Mar 42 he was transferred to the GAF Testing Station RECHLIN, MECKLENBURG, where he worked as a specialist for testing air-craft engines under altitude conditions. In 1942-43 and again in 1944-45, he was sent to BAYERISCHE MOTOR WERKE, MUNICH, where he worked in the same capacity. He was promoted to Capt in 1944. GERLACH states that he was chief engineer of the HERBITUS-STATION at BMW, which was the only station in Europe where jet-propelled engines of type 003-BMW and type 004-JUNKERS could be tested on altitude conditions.

GERLACH claims that he has never been a member of the Party and that he was never forced to join on account of his military status.

2. ADMINISTRATIVE DATA

GERLACH was arrested by VI Corps CIC Det 1 Jun 45 and arrived at SAIC 11 Jun 45 on authority of G-2 Seventh Army. Documents: SOLDBUCH, ARBEITSBUCH, driver's license, passes and certificates stating his identity as employee of BMW-MUNICH and GAF Testing Station RECHLIN, a pass to all LUFTWAFFE establishments and research institutions, personal letters.

3. KNOWLEDGE BRIEF

a. Aircraft engine tests under altitude conditions.

b. Aircraft engines, jet propelled and internal combustion.

c. Construction and operation of testing apparatus.

4. INTERROGATION PLAN

Recommend source's knowledge be exploited by AIWIU, 2d AD Wing.

5. COMMENTS AND RECOMMENDATIONS

GERLACH speaks English well, and is very cooperative.

The recipients of this report are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desirable distribution of the resultant report.

PAUL KUBALA
Maj, MI
Commanding

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27 Jun 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

:	SECRET :
:Auth:	CG, 7th Army :
:Init:	P.K. :
:Date:	27 Jun 45 :

PRELIMINARY INTERROGATION REPORT

SOURCE: MENZEL, Kurt, Maj Gen of AA

1. PERSONAL DATA

Source is a 57-year-old former Maj Gen of AA. He joined the army in 1935 after he had worked in the Air Ministry on questions of civilian air raid protection. During the war he was CO of AA defenses in NURENBERG in 1939-40, CO of 7 Flak Div, COLOGNE, in 1940-1, and CO of 5 Flak Div, FRANKFURT/MAIN, in 1941-2. In May 42 he was retired because he had reached the age limit.

Source is very cooperative. He was never a member of the Party or of any of its organizations.

2. ADMINISTRATIVE DATA

Source was arrested by US troops 5 May 45 and was delivered to SAIC same date, on authority of G-2, Seventh Army. No papers or documents.

3. KNOWLEDGE BRIEF

AA defense methods.

4. INTERROGATION PLAN

Interrogation will proceed according to knowledge brief.

5. COMMENTS AND RECOMMENDATIONS

Since 1942 source has been completely out of touch with all military matters. He has never had any political connections. Release is recommended.

The recipients of this report are requested to submit special briefs of any subject upon which this source should be interrogated and to indicate the desirable distribution of the resultant report.

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Maj, MI
Commanding

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:Date: 27 Jun 45 :

Ref No SAIC/PIR/53
27 Jun 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

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3. KNOWLEDGE BRIEF

AA defense methods.

4. INTERROGATION PLAN

Interrogation will proceed according to knowledge brief.

5. COMMENTS AND RECOMMENDATIONS

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Paul Kubala
PAUL KUBALA
Maj, MI
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Ref No SAIC/PIR/52
27 Jun 45

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Auth: OG, 7th Army
Init: P.K.
Date: 27 Jun 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

PRELIMINARY INTERROGATION REPORT

SOURCE: SELDNER, Eduard, GENMAJ z V (Brig Gen retired), GAF

1. PERSONAL DATA

SELDNER is a 54 year old professional soldier, who served as a pilot and bombardier in World War I, and in Jan 26 accepted a position in the HEERES-WAFFENAMT (Army Ordnance Dept), a small section of which planned the secret revival of the GAF. After the creation of the Air Ministry, he became chief of the A-4 Dept, dealing with T/Os and T/Es for the Air Force. In 1938, he was retired from active duty, but returned in 1939 to become QM Gen of II Flak Corps. In this capacity he served in Air Service Commands BELGIUM, WARSAW, and MOSCOW until Apr 43, when he was attached to II GAF Field Corps. After becoming acting CG of the Air Service Command 27 at MINSK, he was retired in Jun 44.

2. ADMINISTRATIVE DATA

SELDNER was arrested 20 Jun 45 at HEIDENHEIM, vic ULM by 512 CIC Det, and arrived at SAIC 20 Jun 45 on authority of G-2 Seventh Army. Documents: Identification card, WERKLUFTSCHUTZ (Factory Air-raid Police) membership card, and discharge papers from GAF.

3. KNOWLEDGE BRIEF

a. History and organization of GAF since 1926.

b. GAF supply system and ordnance equipment.

c. GENOBST MILCH.

4. INTERROGATION PLAN

It is recommended that subject be interrogated by APWIU, Second Air Disarmament Wing.

5. COMMENTS AND RECOMMENDATIONS

The recipients of this report are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desirable distribution of the resultant report.

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Ref No SAIC/PIR/47
27 Jun 45

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SEVENTH ARMY INTERROGATION CENTER
APO 758

SECRET
Auth: CG, 7th Army
Init:
Date: 27 Jun 45

PRELIMINARY INTERROGATION REPORT

SOURCE: FISCHER, Herbert, engineer; 1st Lt (reserve) GAF.

1. PERSONAL DATA

FISCHER, 29 years old, studied and worked in the field of automobile and airplane construction and in 1938 took up the study of rocket problems. In 1939-43 he served in the German Army with various AA units and in 1943 he was transferred to the HEERESANSTALT (Army laboratory) PEENEMUENDE, then to OKH Weapons Inspection 11 where he developed the magnetic firing mechanism of the German bazooka. He also assisted in the development of 55, 73, and 210 mm rocket guns and projectiles, his work being mainly with the combustion chamber of the projectiles. In Mar 45 he was discharged from the army and joined the RIEGER INNISCH INDUSTRIE K-G. He admits that although he was not a member of the NSDAP he was a Nazi sympathizer, but he is cooperative.

2. ADMINISTRATIVE DATA

FISCHER was arrested by 307 CIC Det in ST KOLOMAN (vic SALZBURG) and delivered to SAIC on 27 May 45. Documents: SOLDBUCH, identification card, letters of appointment as engineer with RIEGER INNISCH, HALLEIN.

3. KNOWLEDGE BRIEF

a. German rockets and projected experiments.

b. HEERESANSTALT, PEENEMUENDE, personalities and organization.

4. INTERROGATION PLAN

Interrogation will proceed according to knowledge brief. Suggest technical experts interrogate this source.

5. COMMENTS AND RECOMMENDATIONS

The recipients of this report are requested to submit special briefs of any subjects upon which this source should be interrogated and to indicate the desirable distribution of the resultant report.

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Maj, MI
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S E C R E T

Ref No SAIC/CIR/2
28 Jun 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

: S E C R E T :
:Auth: CG, 7th Army:
:Init: :
:Date: 28 Jun 45 :

JAPANESE - GERMAN COOPERATION

Consolidated Interrogation Report (CIR)

SOURCES

a. MESSERSCHMITT, Willy, owner of MESSERSCHMITT Aircraft Works. Cooperative during interrogation and apparently honest.
Rating: B-2 Date of Information: See Text Interrogator: J.G.H.

b. DILLI, Gustav)
c. PETERS, Albert)
d. SCHLEGEL, Theodor) Four German Railway experts who were cooperative during interrogation and seem anxious to help in the rebuilding of the German Rail System. (Cf Report Ref No SAIC/33, 30 May 45)
e. EWALD, Richard)

Rating: B-2 Date of Information: See Text Interrogator: J.G.H.

f. GROOS, Otto, Dr, Admiral, former Chief of the Navy Staff. Source is obviously imbued with Nazi doctrines. From 1935 to 1939 he served as instructor for Naval Warfare at the General Staff School. In Sep 41 he became German Chief of the Military Commission for the "Tripartite Pact". He was cooperative during interrogation.
Rating: C-2 Date of Information: See Text Interrogator: A.E.

g. VON TIPPELSKIRCH, Werner, a 44-year-old Col and former General Staff Officer, who in 1944 became Chief of Attaché Section, Army - OKW. In the latter capacity it was his duty to transmit inquiries from the military attachés of neutral countries and Germany's allies to the appropriate German military authorities and likewise to transmit the replies to such questions. However, his knowledge of such transactions is limited by the fact that this channel was often by-passed and the Japanese Military Mission usually dealt directly with General LEEB of the German Ordnance Dept. Source is strongly nationalistic, shrewd, but friendly, and appears to be much more broad-minded than Admiral GROOS.
Rating: C-2 Date of Information: See Text Interrogator: A.E.

I.

AIRCRAFT PLANS GIVEN TO JAPAN

(Source: MESSERSCHMITT)

1. PLANS FOR JET-PROPELLED PLANES

Source states that in the autumn of 1944 Japan requested the plans and patents for the ME 262 jet-propelled plane. The request was granted and it was proposed to send the plans by submarine. Source does not know whether the plans actually reached Japan, but he states that details of the transaction were handled by Director GRAF PLUM who can probably be found either in AUGSBURG or in JETTINGEN on the AUGSBURG-ULM Autobahn. The latter should be able to describe the transactions and furnish written material on the subject.

At the same time Japan also requested plans for the ME 163, a rocket-propelled plane, but source claims that experiments by the German Air Force had proved so unpromising that he considered it most unlikely that the Japanese would produce the plane even if they have the plans.

2. MESSERSCHMITT EXPERTS IN JAPAN

Two of MESSERSCHMITT's associates have been working in Japan since 1941. These are Chief Pilot Willy STÖR and Engineer KADEN. Four more associates left for Japan on the submarine which took the plans for the

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Ref No SAIC/CIR/2
28 Jun 45

ME 262: Dr of Engineering SCHAUERNS, Dr of Engineering VON CHLINGENSPERG, and two laboratory department heads.

3. PRODUCTION DATES

Source is not familiar with Japanese industry or with Japanese technical developments, but he states that if the Japanese have airplane factories and skilled labor available they could put out the first planes four or five months after receiving the plans. New assembly lines and special tools would be needed, but old factories could be utilized. He estimates that an additional six months would be required for mass production.

4. OTHER NEW WEAPONS

Source has no knowledge concerning the development of new weapons in Japan, nor does he know whether plans of other German weapons have been sent to the Japanese.

II.

SOURCES OF INFORMATION ON JAPANESE RAILROADS

(Sources: DILLI, PETERS, SCHLEGEL, and EWALD)

1. LIBRARIES LIKELY TO CONTAIN INFORMATION

a. Library of the Railroad Section of the Reich Transportation Ministry

It is believed that this library contained the most complete works on the Japanese railways. Sources state that the contents of the library were divided into four parts by the Ministry Librarian and sent to different places for safekeeping. Sources believe they could find information concerning the whereabouts of the Librarian and the contents of the library by visiting either GARMISCH or INNSBRUCK.

b. Library of Reich Directory of Railroads, AUGSBURG

During the last few years articles on the Japanese railroads have appeared in the magazines "ORGAN" and "ARCHIV DES EISENBAHNWESENS". Copies of these magazines should be found in this library as well as in the ELEKTRISCHE OBERBETRIEBSLEITUNG, INNSBRUCK.

c. Libraries of the Local Railroad Divisions

d. Library of the DEUTSCHES MUSEUM, MUNICH

e. Libraries of the Technical Colleges

MUNICH; STUTTGART; GRAZ; BRESLAU; DARMSTADT; BERLIN; VIENNA; KARLSRUHE; HANNOVER; DANZIG.

2. RAILWAY EXPERTS WHO PROBABLY CAN FURNISH INFORMATION

a. Former GEHEIMER REGIERUNGSRAT (Confidential Govt Counsellor) WERNECKE has a great knowledge of foreign railway systems. Present whereabouts are not known to sources, but they believe they could find him if allowed to make contacts among railroad supervisors.

b. REICHSVERKEHRMINISTER (Reich Minister for Transport) Heinrich DORPMÜLLER formerly living in BERLIN.

c. Dr of Engineering REMY, President of the Regional Railroad Division of COLOGNE, now probably in OBERSTAUFEN/Allgäu.

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d. Professors of Railway Engineering. There are Professors of Railway Eng at each of the technical colleges listed under sec 1, e, above.

III.

EXCHANGE OF INTELLIGENCE

1. MILITARY COMMISSION FOR THE TRIPARTITE PACT
(Source: Admiral GROOS)

a. Organization

This commission was set up after the Japanese entry into the war, for the purpose of military cooperation among the three Axis powers. It was based upon a Japanese proposal.

In each of the three countries a Permanent Tripartite Council was established, consisting of the Secretary of State of the host power and the ambassadors of the other two powers, with the Secretary of State in each case acting as chairman of the Council. Military and economic commissions were set up as agencies of the Permanent Council.

The chairman of the military commission in each country was a high-ranking officer, and the other members were the military, naval, and air attachés of the other powers. Similarly, the chairman of the economic commission was a high-ranking official of the Foreign Office of the host power, and the members were the commercial attachés of the other countries.

The members of the Military Commission in Germany were:

Admiral GROOS	Chairman and representative of the OKW
Vice Admiral NAMURA	Japanese Navy
Vice Admiral ABE	Succeeded NAMURA
General BANSAI	Japanese Army
General MARRAS	Italian Army
Rear Admiral DE ANGELIS	Italian Navy
Colonel TEUCCI	Italian Air Force

Admiral GROOS received his instructions directly from the Chief of the OKW, but had to inform the Secretary of State concerning all political questions which might arise during the military discussions.

b. Purpose

The first and most important task of the three military commissions was to conclude a military agreement. The Japanese had already drawn up a draft for that purpose, which was accepted with some minor, purely formal, changes. The main issue was the demarcation of the fields of operation in the Indian Ocean. The demarcation line was to run through the longitude east of the Persian Gulf; this line could be crossed by either party only by special agreement and after notification. The other provisions of this military agreement were more general in nature. The three powers obligated themselves to render each other all possible aid in the conduct of the war, i.e. aid in weapons and armament, also an exchange of ideas and experiences developed in the course of warfare, and exchange of important patents.

c. Direct Negotiations

With the conclusion of the military agreement, the main work of the military commissions was finished. In all questions affecting the conduct of the war, the military, naval, and air attachés communicated directly with the general staffs of the respective branches of the service. In all of this, source merely played the role of middleman in order to insure proper cooperation whenever this seemed necessary. This approach was rarely used by the Italians, but more frequently by the Japanese.

As far as Japan is concerned, at least from an operational standpoint,

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there was close cooperation only in the naval field; source is not familiar with the details since such conversations were conducted directly by Admiral NOMURA, and later by Admiral ABE, with the Chief of the German Naval Staff. However, these conversations were probably limited in the main to questions of German submarine and auxiliary cruiser support in operations in the Indian and Pacific Oceans.

Source states that there were no negotiations by the military concerning post-war political plans; these questions were treated with great reserve even in political circles.

Generally speaking, the significance of the military commissions decreased in the course of years, as direct cooperation between the respective German and Japanese General Staffs became closer.

Source claims that the German Navy was fundamentally opposed to Japan's entry into the war with Russia, since it was anxious that Japan should concentrate all its forces for the struggle in the Pacific and Indian Oceans. This point of view was generally shared by OKW even though opposing opinions were expressed in the Army. But in the last analysis, decision upon this question was left to Japan, and no pressure was exercised by OKW one way or another.

2. ARMY ATTACHE SECTION
(Source: Col TIPPELSKIRCH)

a. Purpose

The function of this section was to act as intermediary between foreign military attachés and the German Army. As in the case of the Military Commission for the Tripartite Pact, the Japanese usually by-passed the official channels except to take part in routine monthly meetings for exchange of information.

b. Japanese-German Exchange of Intelligence

The chief subject of discussion at such meetings was the disposition of Anglo-American and Russian forces in the various theaters, with emphasis upon the number of divisions involved and their identification. The Japanese and German documentary evidence generally agreed, but the Japanese had a tendency to exaggerate the number of unidentified divisions in the Asiatic and Pacific theaters to make their contribution to the war effort appear more important.

After the Anglo-American landings in France the Japanese showed particular interest in Allied landing techniques, types of vessels used, composition of invasion units, and the sequence of landing waves in respect to infantry, armor, and artillery. The available German information was passed on in brief form, giving data concerning the initial invasion formations up to division level.

The Japanese were also interested in finding out what the Germans knew about Allied preparations for chemical warfare. These inquiries were passed on to the German Ordnance Dept.

The Germans were able to obtain little information of value from the Japanese, but source is not sure whether it was because the Japanese were unable or unwilling to furnish information. There was such a great distance between the German and Japanese Armies, and they were involved in such different types of warfare, that the cooperation which existed between the two navies was not possible.

c. Personalities Concerned with Japanese Intelligence

The following personalities were mentioned by source as having been chiefly concerned with providing information to the Japanese:

GEN D ART (Lt Gen) LEEB	Chief of Army Ordnance Dept
Colonel BÜRKLIN	Chief of Section "Foreign Armies West", OKH

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Ref No SAIC/CIR/2
28 Jun 45

Lt Col EULER	Specialist for Japan, Section "Foreign Armies West", OKH
Major DIETRICH	Specialist for Japan in Attaché Section until 8 Jan 45. Comes from GÖRLITS, last stationed at Infantry School in DRESDEN.
Major PÖLCHAU	Successor to DIETRICH, now held at SAIC.

28 June 1945

SEVENTH ARMY INTERROGATION CENTER

PAUL KUBALA, Maj, MI,
Commanding.

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Ref No SAIC/DIR/1
23 Jun 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

CONSOLIDATED INTERROGATION REPORT

S E C R E T
Auth: CG, 7th Army
Init: P.K.
Date: 23 Jun 45

USSTAF (Rear)
1 copy

SUBJECT: OBSERVATIONS ON ARTILLERY EMPLOYMENT

1. INTRODUCTION

This consolidated report is published in answer to the following EEI furnished by Hq Seventh Army, Office of the Artillery Officer, dated 22 May 45:

1. Tactics of Artillery: New Developments

   (Especially in interrogations of Tng Officers)

2. Communications

   a. Radios
   b. Telephone

3. Fire-detection batteries

   a. Organization
   b. Efficiency of organization

4. Materiel: Experimental Models

   a. Rocket-assisted projectiles
   b. Rockets

5. Airborne artillery: Recoilless Weapons

6. Effects of US Artillery

   a. Accuracy
   b. Volume
   c. Technique of attack
   d. Time fire (resulting in air bursts)

7. Enemy intelligence of US Artillery

   a. Sources: Air photo locations from the GAF

      1) What use was made by the German Arty of such air photographs?
      2) When were missions flown?

8. Effectiveness of "Storch" Air OPs?

2. SOURCES OF INFORMATION

a. STAUDINGER, Walter, GRUF (Maj Gen) of WAFFEN-SS, Artillery Commander of Sixth SS Pz Army. STAUDINGER is proud of his police and military career. He claims that he was ordered to transfer from police work to the WAFFEN-SS, and that there was nothing he could do but follow orders. He believes that a lasting peace is impossible. He is cooperative and seems willing to tell all that he knows on any subject.
Rating: B-2 Date of Information: See Text Interrogator: JGH

b. WINKLER, Max, GENMAJ (Brig Gen), Higher Arty Officer III, as such Inspector of Replacement Army arty units in Southern Germany. WINKLER either knows little or pretends to know little because of long periods of illness spent away from the Front. Source is uncooperative.
Rating: B-3 Date of Information: See Text Interrogator: JGH

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23 Jun 45

c. Von ROMAN, FREIHERR Rudolf, GEN D ARTILLERIE (Lt Gen), CG, XX Corps. Von ROMAN has a pleasing personality and an excellent memory. He is cooperative and appears to be honest and reliable. He claims to be anti-Nazi, and retains hope of a favorable future for Germany.
Rating: B-2 Date of Information: See Text Interrogator: JGH

d. HUFFMAN, Helmut, GENLT (Maj Gen), CG Arty Training Center No 1, MEISSEN. HUFFMAN is a hard-headed militarist who has not forgotten his past importance. He still justifies Germany's starting the war and all military operations during the war. He stated that he had no hesitation about answering any questions now that the war is over.
Rating: B-2 Date of Information: See Text Interrogator: JGH

e. Personal Histories

1) Gen STAUDINGER

1898	Born in MUNICH.
1914	Volunteered for Repl Bn, 7 Bavarian FA Regt.
1915	Transferred to 10 Bavarian Mt Btry. CO, served in World War I on the Western Front with the 10 Bavarian Mt Btry.
1918	Promoted to Lt.
1919-20	FREIKORPS EPP, 41 Inf Regt, Defense Regt MUNICH, Bavarian State Police.
1920	Transferred to Bavarian State Police force.
1933	Promoted to Capt.
1934	Main office, BERLIN Police Force as expert on motor vehicles.
1936	Promoted to Maj.
Sep 39	Arty Tng Regt JUETERBORG.
Dec 39	Promoted to Lt Col.
Jan 40	2 SS Arty Repl Bn, MUNICH.
Apr 40	CO, 4 Bn, 2 SS Arty Regt.
Aug 40	CO, 1 SS Arty Regt.
Nov 40	Promoted to Col.
Feb 41	Officially released from police force and transferred to SS.
May 43	Training area BOEHMEN and Arty School II for training arty officers and cadres for new arty units.
Jun 43	Promoted to Brig Gen. Became Arty Officer of I SS Pz Corps.
Nov 44	Promoted to Maj Gen. Became Arty Officer of Sixth SS Pz Army.
May 45	Captured by Americans in SALZBURG.

2) Gen WINKLER

1890	Born in MUNICH.
1913	Volunteered for one year's service in the army.
1914-18	On active duty with 1 Bavarian Foot Arty Regt in World War I.
1915	Promoted to 2d Lt.
1918	Promoted to 1st Lt.
1919-35	Active police officer in Bavarian State Police force.
1924	Promoted to Capt.
1935	Promoted to Maj. Transferred to army on staff of 79 Mt Arty Regt.
1937	Promoted to Lt Col; CO, 1 Bn, 79 Mt Arty Regt.
1940	Promoted to Col; CO, 79 Mt Arty Regt.
1942-43	CO, 132 Mt Arty Regt.
Oct 43	Promoted to Brig Gen.
Aug-Nov 43	Officers' Reserve.
Dec 43	CO, 101 Arty.
Mar-Apr 45	Higher Arty Officer III, Inspector of Repl Army arty units in Southern Germany.

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Ref No SAIC/CIR/1
23 Jun 45

3) Gen von ROMAN

1893	Born in BAYREUTH.
1912	Entered 6 Bavarian FA Regt as CO.
1914-18	On active duty in World War I on Eastern and Western Fronts as plat ldr, bn adj and btry CO.
1917	Promoted to 1st Lt.
1921	Taken over into 100,000-man army in 1 Bn, 7 Arty Regt.
1921-28	Served as plat ldr, bn adj, and btry CO.
1924	Promoted to Capt.
1928	Transferred to 7 Mobile Arty Bn, MUNICH.
1934	Transferred to WEHRKREISKOMMANDO VII, in charge of personnel administration of EM.
Jun 34	Promoted to Maj.
Aug 34	Promoted to Lt Col.
Oct 34	CO, 2 Hv Mtz Bn, 53 Arty Regt, ANSPACH.
1937	National War Ministry as arty inspector and supervisor of arty publications.
1939	Promoted to Col.
Aug 39	CO, 10 Arty Regt. Polish campaign.
Nov 39	CO, 17 Arty Regt. French campaign.
1940-41	Arty Commander III with III Pz Corps. Ukrainian campaign.
Sep 41	Promoted to Brig Gen.
1941-42	CG, 35 Inf Div, Central Russia.
Oct 42	Promoted to Maj Gen.
Nov 42	Promoted to Lt Gen.
Sep 42-Apr 45	CG, XX Corps in Central Russia and later in East Prussia.

4) Gen HUFFMAN

1891	Born in WERDEN, Ruhr.
1912	CO in 45 FA Regt, ALTONA-BAHRENFELD.
1913	Promoted to Lt.
1914-18	World War I on Western Front.
1914	CO, 6 Btry, 45 FA Regt.
1915	Transferred with btry to 54 Inf Div.
1917	Promoted to 1st Lt.
1918	Adj to CG, XXVI Reserve Corps.
1919	Demobilized.
Mar 19	CO, 1 FA Btry, Westphalian Volunteer Corps. Aided in suppressing Spartan revolt.
1921	6 Arty Regt in 100,000-man army.
1924	Promoted to Capt.
1934	Promoted to Maj.
1935-38	CO, 3 Bn, 29 Arty Regt, KASSEL.
1937	Promoted to Col.
1941	Active duty in Russia.
1942	Promoted to Brig Gen.
1943	CG, 62 Inf Div.
1943-44	CG, 277 Inf Div.
1944-45	CG, Arty School No 1, MEISSEN.

3. REPORT

a. Tactics of Artillery: New Developments

1) Use of Artillery as a Secondary Line of Defense

Because of a growing shortage of manpower toward the end of the war, the Germans found it difficult to have reserves available at all times rear of the MLR; they also had difficulty in preventing penetrations by tanks and strong armored patrols, as well as in establishing a new MLR once their inf was forced to withdraw. To counteract these difficulties some units set up

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their arty as a secondary line of defense. In accordance with this plan the bulk of the arty was to be put into position 2 to 2.5 km from the MLR, and as nearly as possible parallel to it. Individual gun positions were to be chosen to permit the greatest possible field of direct fire to front and flanks. In this manner complete coverage of the front by arty fire was to be obtained if possible. Positions were to be prepared so that they would form a complete defense line. In case of retreat, this furnished the inf with a ready-made line from which it could defend or counterattack.

The main disadvantage of a secondary line of defense was that complete camouflage could seldom be obtained because of unfavorable terrain. This left some of the firing positions exposed to enemy air obsn and enabled the enemy to destroy a portion of such installations through air activity or counter-btry fire before or at the beginning of an attack. If the enemy were successful in destroying large numbers of such positions, the inf would be left without arty support. It was therefore advisable to place about one-third of the arty in position to the rear of the secondary arty defense line. Gen von ROMAN asserts that such employment of arty proved its worth many times on the Eastern Front.

2) Preparations for Attack

Because of Allied air superiority, the Germans were forced to take increased caution in preparing for attack. Four to five days before an attack was to take place, units went into assembly areas which were never closer than 10 km behind the MLR. All movements were made at night and painstaking efforts were made in camouflaging such areas.

The corps arty commander and his staff reconnoitered for positions. All other arty officers were forbidden to enter the area they were to take over for fear that their presence would lead to rumors of the coming attack which might be disclosed by PWs or deserters.

To increase secrecy of the attack, obsn btry positions and OPs were not picked until two days before the attack. Such positions were then manned the second night before the attack. This gave the personnel one day to become familiar with enemy installations. The night before the attack, wire was laid between the OPs, CPs, and firing positions. Pieces and am were brought into position the night before the attack. If possible, horses were used for this purpose, to avoid motor noises.

3) Fire Control Batteries (FEUERLEITBATTERIEN)

In forward areas, the Germans sought to make up for the lack of air superiority by increased use of heavy arty concentrations. They formed fire control btrys which could mass the fire of 18 btrys on desired targets. The control btry kept contact with the firing btrys at all times and was thus able to bring a great concentration of fire upon a target in a short period of time. None of the sources had worked with these btrys; they tried to get them, because they had heard only good reports on their effectiveness. One of the leading units in the use of heavy concentrations of arty fire was the VOLKS ARTILLERIE KORPS.

4) Use of SP Artillery

In the last two years the German Army increased the use of arty on self-propelled mounts. Btrys were formed with six light or heavy field hows each Such units were usually committed with armd divs. Such arty was effective in the east, but not in the west, because of Allied air superiority. Many times the tracks on such pieces were destroyed by air attack and the wpns could not be used because of lack of spare parts and repair facilities. The arty regt was not equipped with tank repair personnel.

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23 Jun 45

b. Communications

1) Radio

Most of the generals preferred to use radio only in fast-moving situations as in the attack where it was difficult to lay wire fast enough to keep up with the forward elements. All complained about the insufficient range and wave bands of their sets and preferred to use telephone whenever possible. Gen STAUDINGER gave the following information on radios used by units under him:

Type set	Theoretical range	Operating range
Bertha	6 km	3 km
Fritz	8 km	5 km
Gustav	12 km	8 km
K	20 km	10-12 km

In the last year of the war, it was difficult to get tubes and batteries. There was also a shortage of trained personnel.

2) Telephone

This type of com was preferred by all four generals. Each btry had a com sec which carried 12 rolls of wire. Each roll contained 800 m of wire. Each arty bn had two or three wire secs and a switch board sec which were part of the com plat. During the retreats in the East and West large quantities of wire were lost. It was impossible to replace these losses because of the poor supply system. Toward the last, telephones were hooked into commercial lines to conserve wire. In doing this there was always the danger of enemy interception of messages.

3) Communication for corps and army arty

These units had no com of their own and had to rely on attached com units fro corps or army. With increasing shortages of radio and telephone equipment, arty COs at these echelons found it next to impossible to get the com they needed. They had to rely almost entirely on getting their messages through inf com channels.

c. Fire Detection Batteries

1) Organization

The fire detection unit was usually the bn, which contained sound, flash, and ranging btrys. Later tank divs were given btrys each containing a sound, flash, and ranging plat.

2) Efficiency of Organization

All four generals agreed that the obsn btrys had been of great value in locating enemy arty positions. Because of the shortage of am in the last year, it was not always possible to fire counter-btry on such positions; but information gained was of great value in determining where an enemy attack was to take place. It was estimated that an obsn bn could locate eight-ton btrys a day with a fair degree of accuracy.

It usually took one to three days for these units to get set up and get a fair picture of the number of enemy btrys to their front. Eight to ten days were usually required in locating enemy positions in preparation for a major attack. Work of flash btrys was impeded by foggy and rainy weather as well as by poor terrain such as woods and mountains. Sound ranging was made difficult by air activity, simultaneous firing of several btrys, and motor activity. The

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Ref No SAIC/CIR/1
23 Jun 45

mixture of these noises made it hard to pick out the arty reports.

In the defense and in slow-moving situations, the obsn bns did excellent work. They were not mobile enough to be at their best in fast-moving situations where they had difficulty in keeping up with armd and mtz units. In the latter situation they seldom had time enough to survey in their positions. In recent years they were also handicapped by a shortage of trained personnel.

d. Rockets and Rocket-Assisted Projectiles

Sources claimed that all they knew on these subjects was what they had read in the newspapers. All such information was kept top secret. It was believed that Lt Gen CAMMLER, who was influential in this field, might be able to give information on this subject.

e. Airborne Artillery, Recoilless Weapons

Gen von ROMAN once witnessed the firing of such a weapon by a cav brig. On firing, a great deal of smoke was given off and a lot of dust was stirred up. The weapon was ineffective because firing positions could be located easily by the enemy.

Gen STAUDINGER saw a recoilless 105 mm how at Arty School II, Training Camp. BOEHMEN. This piece was comparatively light; it had hollow split trails and was designed for use by prcht and mt troops. A rocket charge was included with the powder charges. On firing, the explosion of the rocket charge was supposed to neutralize the recoil of the piece. It was claimed that the piece was recoilless. Range was said to be 6,000 to 7,000 m.

f. Effect of US Artillery

Of the four sources interrogated, only Gen STAUDINGER had fought against the Americans. The following information was given by him. He faced the Americans in the ARDENNES counter-offensive Dec 44-Jan 45.

1) Accuracy

The general praised the work done by American forward observers. He claimed that arty fire on forward positions was almost always accurate and caused heavy casualties among the inf. American fire on villages to the rear of the MLR caused large numbers of casualties, for the Germans tried to shelter as many men as possible in houses during the winter months. As a rule the cellars of the houses were not built well enough to offer sufficient protection from arty fire.

Arty fire on CPs and radio transmitters was surprisingly accurate. As a rule about two days after a CP had been occupied, it would receive sudden and unexpected arty fire. The general was curious to know how radio transmitters were located so quickly. About a half hour after a transmitter had been set up it would receive enemy arty fire. Because of this an order was issued that no transmitter would be located within 2 km of a CP or important installation.

Arty fire on roads rear of the MLR was very accurate and made the advance of reserves and reinforcements difficult as well as making it difficult to supply the front lines.

There was, however, often a large amount of firing into open spaces in rear areas which caused little damage and seemed to be without purpose.

2) Volume of Fire

Source was amazed at and envious of the amounts of arty am that US arty expended on each target.

3) Technique of Attack

Monitors often picked up fire missions in the clear in time to warn their own troops. Once a barrage started, it continued in the same place for a comparatively long period of time. Thus if anyone could move from the area under fire,

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he was as a rule safe. If the barrage had shifted to the flanks and changed range more rapidly, even greater results would have been obtained.

The firing of more than one btry at the same time made the work of sound and flash ranging difficult. This work could have been made even more difficult if greater use had been made of roving guns which would be effective in harrassing the enemy as well as misleading him in locating the real gun positions.

No notice was made of American use of "silent" btrys. Such btrys went into position, were well camouflaged, and were used only in case of support needed during emergency.

Tree bursts in wooded areas resulted in such great losses due to wood splinters, that it was attempted to avoid heavily wooded areas whenever possible.

4) Time Fire, Air Bursts

The general claims that little enemy time fire was used on th front on which he was committed. He had questioned the inf abou this and the latter had noticed little of this type of fire. Time fire received was quite effective because of the great frag mentation area of air bursts.

g. Enemy Intelligence of US Artillery by Air Photos

1) Use Made of Such Photos

Air photos from the GAF were used to verify locations found by sound and flash units, also to locate positions not previously located.

2) When Missions Were Flown

Missions were usually flown before enemy attacks were expect or before friendly attacks were made. Request for a mission ov a certain area could be made through the air liaison officer. The lapse of time between request for and receipt of the photos was usually four or five days and in that time information needed had become outdated.

h. Effectiveness of Artillery Observation Planes

Sources believed that the Americans made good use of such plane Allied air superiority prevented the Germans from using these planes for arty obsn purposes. In fact it was forbidden to use them for obsn. They were therefore used for checking camouflage of friendly positions and for messenger service between CPs.

23 June 1945.

SEVENTH AEMY INTERROGATION CENTER

Paul Kubala.
PAUL KUBALA,
Maj, MI,
Commanding

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SEVENTH ARMY INTERROGATION CENTER
APO 758

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:Auth: CG 7th Army :
:Init: [illegible] :
:Date: 26 Jun 45 :

PRELIMINARY INTERROGATION REPORT

SOURCE: HERB, Alfred, director of SCHULER A.G., GOEPPINGEN

1. PERSONAL DATA

HERB was born 27 Dec 1895 in GEISLINGEN. After serving in World War I and becoming a lieutenant in the reserve, he attended the Machine School in ESSLINGEN, from which he was graduated with honors. He joined the firm SCHULER A.G., GOEPPINGEN, in 1921 and has remained in its employ ever since. After the denunciation, trial, and execution of Dr Albert SCHULER by the VOLKSGERICHT (People's Court) in BERLIN in Jul 43, source became director of the firm, serving in a "security" capacity, and carrying a special ABWEHR document for that purpose. In early 1945 the SCHULER firm began the manufacture of GERAETE 162, 262, 213, and 214, jackets used in the construction of cannons carried in jet-propelled planes.

HERB joined the Party in 1932, and held the position of ORTSGRUPPENLEITER from 1934 to 1936. Constantly at odds with the KREISLEITER of GOEPPINGEN, he was forced to resign his position in 1936, although he remained a Party member.

2. ADMINISTRATIVE DATA

HERB was arrested by Military Govt in GOEPPINGEN 22 May 45 and arrived at SAIC 25 May in accordance with orders from G-2, Seventh Army. Personal letters and a telegram were in his possession.

3. KNOWLEDGE BRIEF

a. Location of drawings of jet-plane gun parts.

b. Production figures of SCHULER A.G., GOEPPINGEN.

4. INTERROGATION PLAN

Interrogation will proceed according to knowledge brief.

5. COMMENTS AND RECOMMENDATIONS

The recipients of thisreport are requested to submit special briefs on any subject upon which the source should be interrogated and to indicate the desirable distribution of the resultant report.

PAUL KUBALA
Maj, MI
Commanding

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Ref No 3AIC/PIR/17
24 Jun 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

: SECRET :
:Auth: CG, 7th Army :
:Init: :
:Date: 24 Jun 45 :

PRELIMINARY INTERROGATION REPORT

SOURCE: GANDERT, Hans Eberhard, GENMAJ (Brig Gen) GAF, Chief of Administrative Office for Food and Clothing (GAF)

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1. PERSONAL DATA

GANDERT is a 63-year-old professional officer who began his military career in 1905 as a Cadet. He was commissioned in 1913 and immediately entered a Military Flying School, where he qualified as a pilot. From 1914 to 1918 he served on the Western Front in various fighter and observation squadrons.

Source continued his career in the REICHSWEHR as a company commander. In 1933 he became an instructor of Aerial Photography and Air Tactics at the Infantry School DRESDEN. He was appointed Commandant of Flying Schools and Air Corps Reserve Bns in LUFTKREIS 2, BERLIN. Upon this appointment he attained the rank of OBST (Col).

In 1938 source was assigned to the LUFTWAFFE VERWALTUNGSAMT VERPFLEGUNG u. BEKLEIDUNG (Adm Office for Food and Clothing) as chief of a section. He was promoted to GENMAJ (Brig Gen) in 1939. His next assignment was Commandant of the LUFTWAFFE UEBUNGSPLATZ ZINGST DARRS (Air Corps Training Area ZINGST DARRS), which he obtained in 1942 and held until his discharge in Feb 45.

2. ADMINISTRATIVE DATA

This source arrived at SAIC 8 Jun 45 from Oklahoma Cage (FUERSTENFELDBRUCK) on 8 Jun 45, on authority of G-2, Seventh Army. Documents: Pilot's license, SOLDBUCH, WEHRPASS, TRUPPENAUSWEIS, and discharge papers from the LUFTWAFFE.

3. KNOWLEDGE BRIEF

Source has information on:

a. Food and clothing supply of the GAF

b. Personalities of the Ministry of Economics

c. Personalities of food and clothing industry

d. Air tactics and photography

4. INTERROGATION PLAN

No further interrogation planned.

5. COMMENTS AND RECOMMENDATIONS

The recipients of this report are requested to submit special briefs of any subject upon which this source should be interrogated and to indicate the desirable distribution of the resultant report.

Paul Kubala
PAUL KUBALA
Maj, MI
Commanding

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25 May 45

SEVENTH ARMY INTERROGATION CENTER
APO 758 US ARMY

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:Auth: CG, 7th Army :
:Init: _____ :
:Date: 25 May 1945 :

OBSERVATIONS ON ARMORED TACTICS

(Cf also Report Ref No SAIC/17, 24 May 45)

SOURCES

i) GUDERIAN, Hans, GENOBST (Col Gen), FUEHRERRESERVE (Officers Pool), former Chief of Staff, German Ground Forces, and Inspector General of Armored Units, is a 57-year old officer who apparently wants to appear anti-Nazi. He talked freely and answered all questions willingly, but stated emphatically that he did so only because HITLER's death freed him from his oath of allegiance.

Rating: B-2 Date of Information: See Text Interrogator: R.W.

ii) VON GEYR, Leo, GEN D PZTRUPP (Lt Gen), Inspector of Armored Units. Proud of his profession, of the old Prussian general type, source gave information grudgingly; his personal pride borders upon the ridiculous. Having been Military Attache in LONDON for several years, source claims to have an understanding of Anglo-American affairs.

Rating: B-2 Date of Information: See Text Interrogator: R.W.

1. PERSONAL HISTORY OF GEN GUDERIAN

17 Jun 1888	Born at CULM/VISTULA.
1894-1901	School at COLMAR.
01-03	Officers candidate institute (KADETTENANSTALT) at KARLSRUHE.
03-07	Main Off Candidate Institution (HAUPTKADETTENANSTALT) LICHTERFELDE.
07	Assigned as O C (FAEHNRICH) to HANNOVERSCHES JAEGER BN 10 at BITCHE.
27 Jan 08	Promoted to 2d Lt.
09	Transferred to GOSLAR with Bn.
12-13	On DS with TELEGRAFEN BN 3 (3 Telegraph Bn).
13-14	War Academy (KRIEGSAKADEMIE) BERLIN.
Aug 14-Nov 14	CO of Radio Posts with various hqs.
8 Nov 14	Promoted to 1st Lt.
Spring 15	Intelligence officer with various hqs.
18 Dec 15	Promoted to Capt.
Spring-fall 17	On DS on staff of various hqs. (up to that time, his basic organization was still 10 JAEGER Bn)
Feb-Nov 18	With a hq staff in Italy.
Dec 18-Sep 19	FREIKORPS (GRENZSCHUTZ) (Frontier Guards) for the EAST. Source helped to organize these units.

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Ref No SAIC/23
25 May 45

Oct 19-Jan 20	REICHSWEHR BRIGADE 10, HANNOVER.
Jan 20-Apr 22	Company commander with 10 JAEGER Bn of 17 Inf Regt, GOSLAR.
Apr 22-fall 24	REICHSWEHRMINISTERIUM (War Ministry) INSPEKTEUR DER KRAFT-FAHRTRUPPEN (Inspector of M/T Units).
Oct 24-Sep 27	On 2d Div Staff, STETTIN.
1 Feb 27	Promoted to Maj.
Oct 27-Jan 30	REICHSWEHRMINISTERIUM (War Ministry), TRANSPORT ABT DES TRUPPENAMTS.
Feb 30-Sep 31	CO, KRAFTFAHRABT 3 (3 M/T Bn), BERLIN LANKWITZ.
1 Feb 31	Promoted to Lt Col.
Oct 31-Jun 34	C of S, Inspector of M/T units.
1 Oct 33	Promoted to Col
Jul 34-Oct 35	C of S, KOMMANDO DER PANZERTRUPPEN (command of armored troops).
Oct 35-Feb 38	Commanding 2 Armored Div.
1 Aug 36	Promoted to Brig Gen.
1 Feb 38	Promoted to Maj Gen.
Mar 38-Nov 38	CG XVI Corps, BERLIN.
Nov 38-Aug 39	OKH, CHEF DER SCHNELLEN TRUPPEN (Chief of Mobile Units).
Nov 38	Promoted to Lt Gen (GENERAL DER PANZERTRUPPE).
Sep 39-May 40	CG, XIX Pz Corps (Poland and France).
Jun 40-Jun 41	CG PANZERGRUPPE GUDERIAN
Jul 40	Promoted to GENOBST (Col Gen).
Jun 41-Dec 41	CG of PANZERGRUPPE 2 (Pz Group 2, later changed to 2 Pz Army).
Dec 41-Feb 43	Placed in FUEHRERRESERVE (Officers Pool).
Feb 43-Mar 45	Inspector General of Armored Troops.
21 Jul 44	In addition to other duties, Chief of Staff, German Ground Forces.
28 Mar 45	FUEHRERRESERVE (Officers Pool).

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2. PERSONAL HISTORY OF GEN VON GEYR

2 Mar 1886	Born at POTSDAM.
1892-1904	Gymnasium at STUTTGART.
04-11	26 WUERTTEMBERGISCHES KOENIGSDRAGONER REGIMENT.
05	Promoted to 2d Lt.
11-14	War Academy (KRIEGSAKADEMIE) BERLIN.
13	Promoted to 1st Lt.
Aug 14-Nov 14	Regt Adj, 7 Cav Div.
Nov 14-summer 16	With 9 Cav Div Hq, as Russian interpreter.
Jan 15	Promoted to Capt.

0288

THIS PAGE IS DECLASSIFIED IAW EO 13526

THIS PAGE IS DECLASSIFIED IAW EO 13526

Ref No SAIC/23
25 May 45

summer 16-Jan 17	On DS with XXII Res Corps Staff.
Jan 17-Apr 17	Liaison Officer, First Bulgarian Army.
Apr 17-fall 17	Assigned to XXII Res Corps Staff.
fall 17-Apr 18	G-2, Army Group (HERZOG) ALBRECHT.
Apr 18-May 18	C of S, 30 Inf Div.
May 18-Jun 18	C of S, 26 LANDWEHR Inf Div.
Jul 18	G-2, Army Group SCHOLZ.
Aug 18-Sep 18	On Staff of Bulgarian ORCHRIDA Div.
Sep 18	Ill with malaria until end of war.
Mar 19-Oct 19	GROSSER GENERALSTAB (Higher General Staff), BERLIN (Polish and Russian questions).
Jun 20-Sep 22	Instructor of tactics at CCS WUENSDORF near BERLIN and at MUNICH.
Sep 22-Jan 25	Squadron Commander of 18 Cav Regt, LUDWIGSBURG.
Jan 25	Promoted to Maj.
Jan 25-Oct 28	1-A (First Staff Officer) 3 Cav Div.
Oct 28-Jan 31	1-A (First Staff Officer) WEHRKREIS IV DRESDEN.
Jan 31-Apr 33	CO, 14 Cav Regt LUDWIGSLUST/MECKLENBURG.
30	Promoted to Lt Col.
Oct 32	Promoted to Col.
Apr 33-Oct 37	Military and Air Attaché, German Embassy LONDON, and in the legations at BRUSSELS and The HAGUE.
Sep 35	Promoted to Brig Gen.
Oct 37	Promoted to Maj Gen.
Oct 37-Feb 40	CG, 3 Armored Div, BERLIN.
Feb 40-Dec 41	CG XXIV Corps (later changed to XL Armored Corps).
Apr 40	Promoted to Lt Gen.
Dec 41-Jun 42	Ill.
Jun 42-Sep 42	CG, XL Armored Corps.
Oct 42-Jan 43	Ill.
Feb 43-summer 43	Deputy CG, LXXXVI Corps.
summer 43-Jul 44	GENERAL DER PANZERTRUPPE WEST (Gen of Armored Forces, West), which was nucleus for the PANZERARMEE DER PANZERGRUPPE-WEST (Panzer Army of Panzer Group, West), later renamed 5 Pz Army.
Aug 44-May 45	Inspector of Armored Units.

In July 44, source was relieved from his command in the WEST because of differences in opinions regarding armored tactics.

3. NOTES ON ARMORED TACTICS - GEN GUDERIAN

Gen GUDERIAN considers air superiority an essential factor in a good coordinated tank attack. Another important point is that tanks should

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0289

THIS PAGE IS DECLASSIFIED IAW EO 13526

THIS PAGE IS DECLASSIFIED IAW EO 13526

Ref No SAIC/23
25 May 45

always be employed in masses. On ideal terrain and with all necessary tanks avaiable, a good attack can employ three armored divs, each with 300-400 tanks. If the attacking force has more than one corps available, all divs can be employed on a broad front without any reserves, while the other corps takes up positions to the rear as reserve unit. In the case of tank units in reserve, the General points out, it is difficult to bring them up to the critical points in time to be of decisive value. As an illustration, source recalls that when he attacked the MAGINOT Line in 1940, he employed three armored divs on a broad front, leaving the question of reserves to another corps.

The leader of tank units should always be far up to the front, since quick decisions and forceful leadership are by far more important in armored tactics than in engagements of any other arm. It is of paramount importance to recognize the exact moment when the unit should advance into battle to its best advantage.

Armored tactics, source points out, were substantially known even before the war. Source's "ACHTUNG PANZER", Gen de GAULLE's "L'ARMEE DE CHOC", and British tactics were essentially the same. However, these tactics were employed neither by the British nor by the French; thus, despite inferiority in heavy tanks, the Germans achieved victory in 40, mainly due to superior communications equipment, and through correct employment of armored tactics.

As regards tank production, it is better, in Gen GUDERIAN's opinion, to have quantities of an older-type tank available than to experiment with too many models and lack the necessary amount of armor. Through series production the many changes of the experimental stages (KINDERKRANKHEITEN - "children diseases") are avoided.

4. NOTES ON ARMORED TACTICS - GEN VON GEYR

Source stresses the importance of speed of decision as applied to armored tactics. A leader of tank units must be able to make decisions on a minute's notice, work constantly under the pressure of time; he must have a "stop-watch mind" (GEDANKEN DER STOPPUHR). American regtl, bn, and co commanders still require too much time for making decisions, source believes, and are thereby losing the surprise element. Leadership of armored units of div and greater strength should be characterized by its dynamic qualities, and should "deliver punches at the right time and at the weak spot".

Armored tactics must vary according to the oponents, source points out. He himself developed different tactics for the Eastern and Western fronts. The amount and execution of air-tank coordination are decisive in tank battles. In this connection, the failure of the GAF is mainly responsible for the Allied break-out in Normandy.

The ability of the individual tank gunner to aim a good shot at long ranges is also a most important factor in the outcome of tank engagements. Generally, proper organization and leadership of fire fights has to be stressed.

(NOTE: All information below has been obtained from Gen GUDERIAN)

5. FUTURE DEVELOPMENTS

Land warfare will be dominated by the use of the tank as long as no more efficient A/T weapons are developed. Three types of tanks will continue to be essential: a heavy penetration tank (SCHWERER DURCHBRUCHPANZER) for the main thrusts; a light reconnaissance tank (LEICHTER AUFKLAERER); and a tank destroyer, which should be heavily armed and speedy. Source points out that during this war there has been a German tendency to replace the light tank with a heavy one, and that only on account of his specific

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requests the production of light tanks was taken up again.

For close combat developments of the flamethrower tank are to be expected. The German flamethrowers suffered from the bad quality of the oil; also, the inflammable liquid was placed within the tank. The American solution of placing the inflammable liquid on a trailer was much more efficient and comfortable for the tank crew, and American oil is excellent. As a weapon, the flame throwing tank is limited to street fighting and fighting against an enemy that cannot be reached by the straight flight of the machine gun bullet. It should be used as support weapon only. Source, however, expects further developments of its fire technique which, he believes, will be carried along artillery lines. The morale effect of the flame throwing tanks upon the enemy is considerable.

Rockets, having the obvious advantages as to weight, etc, cannot yet engage point targets and are therefore unsuitable for mounting on tanks. Once this disadvantage of the rocket projectors is overcome, however, tank-mounted rocket projectors will be commonly used.

Source does not believe that tank-mounted arty weapons will undergo considerable changes. He points out that tank crews had already enough trouble with a long barrelled 88 mm gun, especially in the case of a gun with a muzzle brake, when passing a ditch, for instance. A longer barrel would seriously limit the tanks' mobility. A limited number of tanks used for penetration only might be the exception.

Howitzers mounted on SP chassis did not prove very successful, except for specifically assigned special missions. The best suited weapons for mounting on tanks at present are guns of calibers between 75 and 90 mm.

German technicians had quite some trouble in finding a good tank engine; dust in Russia had a destructive effect on German engines. Source thinks that similar difficulties might be encountered by the Americans when employing tanks in China. He believes mass employment of tanks against the Japanese in China possible, but difficulties might be encountered trying to employ armor on a large scale on the Japanese islands. Due to the numerous rivers in China, further developments of amphibious tanks would be of value.

Source believes that extensive adaptations of infra-red rays to tank warfare are to be expected. He is of the opinion that years to come might bring in the field developments comparable to these in the field of radio equipment between 1918 and the outbreak of the present war.

6. COMPARISON OF EXISTING TANKS

Source rates the German Royal Tiger as the best tank employed at present. Next is the Russian T-34, especially the model mounting a 85 mm gun. Next is the American SHERMAN the main shortcoming of which are its too narrow tracks. The Russian T-34 has excellent tracks as well as a light metal DIESEL engine. The quality of the steel in Russian tanks was slowly declining, however, and the lack of easily turnable turrets as well as good radio communication equipment were obvious disadvantages.

Source credits the German Army with having the best tank units.

7. GERMAN - JAPANESE COOPERATION

Source does not believe that any attacks by the Germans and the Japanese were coordinated. To his knowledge, information on German tactics was given to the Japanese only once, in 1940. Afterwards the Japanese diplomatic representatives were seen by source with HITLER on rare occasions. During nine months of working close to the FUEHRER, source saw the Japanese Ambassador, Mr OSHIMA, only twice with HITLER. The Japanese Military Attache, Mr KOMATSU, was seen five times with HITLER during the same period. On the Japanese diplomatic staff was also a Mr NISHI (?), specialist in American questions.

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Ref No SAIC/23
25 May 45

Source does not know whether Japanese aggressive measures which led to the declaration of war were coordinated with German efforts, but he believes that they were.

8. DETAILS CONCERNING HITLER

Source saw HITLER last 28 Mar 45, before being placed in FUEHRERRESERVE. At that time the FUEHRER was suffering from nervous attacks, and his left arm and leg were shaking strongly. HITLER was also still suffering from bruises on his right arm and from the injured right ear drum, results of the 20 July attempt on his life. HITLER talked clearly and in a precise manner, and was well informed about the last details of the military situation at that time.

Source thinks that after his rise to power in 33, HITLER worked in the interests and to the good of the German people. The following events source thinks passable, if not entirely "correct". This refers to the increase of the German Army, the occupation of the Rhineland, the Saar plebiscite and the annexation of Austria and the Sudetenland. German annexation of the remainder of Czechoslovakia and of Poland did not find source's approval.

HITLER, source states, was able to convince everybody that his decisions were right through his personal charm, throughout the war. Field Marshal KEITEL, whom source does not consider very clever, was particularly susceptible to HITLER's arguments. The German General Staff raised objections as to various contemplated operations, but HITLER had his successes to back him up, and repeatedly accused his generals of a lack of imagination. Source states that the General Staff did not like the idea of attacking Poland in 39, but that the generals finally agreed to attack knowing that they could not resist HITLER's wishes.

9. THE EVACUATION AT DUNKIRK

Source claims he was not allowed to enter the Port of DUNKIRK with his tanks. The British forces there were to be destroyed by the GAF alone. The Air Force, however, failed in this task, and the British evacuation at DUNKIRK was thus made possible. Source believes that, given permission to enter DUNKIRK, he could have annihilated all troops assembled there.

10. NORMANDY INVASION

While a number of mistakes were made in the German preparations for an Allied invasion of France, the factor mainly responsible for Allied successes was the failure of the GAF! At the time of the invasion the GAF was still at the level of 1940, with no new-type planes. The lack of air-superiority led to the complete breakdown of the German net of communications. Other failures were the neglect to modernize the SIEGFRIED Line, the neglect to fortify cities like PARIS, LIEGE, ANTWERP, and the wrong distribution of armor. Source claims that the sole responsibility for all these errors lies with HITLER alone who neglected to follow advice given by the General Staff. It was HITLER who decided that the Atlantic Wall was strong enough to withstand all attacks. Commanders of tank units opposing Gen PATTON were unable to use their initiative, but had to follow HITLER's own plans. Source thinks he could have stopped Gen PATTON in France, had he been left free to employ his own strategy.

11. NOTES ON THE RUSSIAN ATTACK OF FALL 44.

After source had been appointed Chief of Staff, German Ground Forces, he tried to work out a plan to stop the Russian advances. He found conditions similar to those prevailing in the WEST, namely that important places had not been fortified.

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THIS PAGE IS DECLASSIFIED IAW EO 13526

THIS PAGE IS DECLASSIFIED IAW EO 13526

Ref No SAIC/23
25 May 45

The GAF, unable to cope with Allied air superiority in the WEST, was completely absent from the Eastern front. Source believed that because of inferior technical developments of the Russian Air Force as compared to the Allied, the GAF could achieve more in the EAST. He asked for air support, but it was denied. When the situation became more critical, HIMMLER, formerly commanding Army Group Upper RHINE, whose primary function was, at first, to catch deserters, appeared at the Eastern front entrusted with the task of stopping the Russians. Source told HIMMLER that he considered his function as leader of the German Police more important, and asked him to "stop playing troop leader". HIMMLER reported this conversation to HITLER, and eventually brought about source's ousting as Chief of Staff. Source also had a conversation with RIBBENTROPP, in which he pointed out that a two-front war was too much to cope with, and asked him to make peace either in the WEST or in the EAST. This conversation was also reported to the FUEHRER, and helped in bringing about GUDERIAN's dismissal. Source claims that as early as 43 he had conversations with SPEER and GOEBBELS in regard to the seriousness of the situation. Both agreed with source's point of view, but were unable to influence HITLER to stop his "intuition warfare".

The contemplated date and location of the Russian thrust were well known to the top Eastern front leaders, source claims. HITLER, however, did not believe that the situation was dangerous, believing Russia too weak after the summer campaign to start a new offensive. All materiel prepared by source for the Eastern front was shipped to the WEST in Sept 44. HITLER also erroneously overestimated the value of the RUHR, in source's opinion. The RUHR was at that time already crippled by Allied air attacks, while the Upper Silesian coal mines were still working full blast. Still, it was decided to concentrate on the defense of the RUHR. Source points out that stronger resistance in the EAST would have helped German food problems, since East Prussia was an essential factor in assuring the necessary crops.

12. ARDENNES OFFENSIVE

Although source was not involved in this offensive in any official capacity, he was watching it closely, since all his reinforcements for the Eastern front were used up during this campaign. Source thinks that in the beginning the front, limited to valleys, was too narrow. According to his estimate, the offensive should have been broken off on 20 Dec, after American resistance on a larger scale appeared. RUNSTEDT, however, was ordered to hold his gains at all costs.

13. PERSONALITIES

Source considers VON RUNDSTEDT as the best of all German generals at the present time. He is serious and still commands the confidence of the German people. Souce suggests him as a candidate for a role similar to that of HINDENBURG in 25.

HIMMLER, source believes, is responsible for the deeds of the SS. He is a man with bad illusions. Source expected HIMMLER to change the policy of Germany by putting HITLER in his proper place.

KESSELRING, source says, is very intelligent, clever, but an opportunist.

14. PERSONAL NOTE

When Gen PATTON broke out of Normandy, HITLER told his generals that they would be unable to employ such daring tactics. Gen GUDERIAN objected, recalling his historic breakthrough in the ARDENNES, in 1940.

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Ref No SAIC/23
25 May 45

15. MISCELLANY

a) On 16 Jan 45 a German corps had to reture toward WARSAW. The WARSAW garrison was weak, but the FUEHRER ordered the city held at all costs. Source gave this order to his C of S, Col VON BONIN. In the afternoon Col VON BONIN reported that the troops as well as the WARSAW garrison were withdrawing and source, after checking this information as best he could, designated the next stand of the withdrawing troops. At the FUEHRER's conference, source was asked by HITLER whether he had known of the seriousness of the sitn ion. Source said he had; while they were conferring, a radiogram arrived stating that the WARSAW garrison was still holding out. HITLER again gave orders to hold to the last. At that time GUDERIAN's orders as to a next stand had not yet arrived at WARSAW and when they finally came, the WARSAW commander preferred to follow those orders than those of HITLER. When the FUEHRER received the news, he decided to hold VON BONIN responsible and put him, together with two junior officers into the STRAFGEFAENGNIS (Prison) BERLIN-MOABIT, despite source's protests that he was the only responsible person. The two junior officers were finally released and given front assignments, while VON BONIN's case was transferred to the RSHA (Central Security Office). The RSHA investigation cleared VON BONIN of all charges, but HITLER stated he did not trust the investigating officers. VON BONIN stayed in prison for two months and was then transferred to the DACHAU concentration camp.

b) Col GRAF VON RITTBERG, an intelligent German officer, realized in Apr 45 that the war was lost for Germany. He said so, and was shot for his careless remark.

c) "Russia wants to eliminate Poland. The American and British policy in regard to the Russian question is not understandable".

d) Source believes that Germany cannot supply her own food as long as Russia keeps her Eastern provinces.

e) "Negro troops either from French colonies or from the United States used as occupation forces will damage all signs of good will".

25 May 1945

SEVENTH ARMY INTERROGATION CENTER

Paul Kubala

PAUL KUBALA,
Maj, MI,
Commanding.

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SECRET

Ref No SAIC/18
24 May 45

SEVENTH ARMY INTERROGATION CENTER
APO 758
US ARMY

SECRET
Auth: CG, 7th Army
Init: P.K.W.
Date: 24 May 1945

HITLER'S LAST SESSION IN THE REICHS CHANCELLORY, 24 FEB 45

Note: No authentic reports of this session have been published in the Press or announced over the Radio. Reports which have been released did not contain the true facts.

SOURCES

i) WAHL, Karl, GAULEITER of AUGSBURG.) Both these men were present at
ii) AMANN, Max, Nazi Party member No 3.) the meeting described below.

Rating: C-3 Date of Information: 24 Feb 45 Interrogator: W.K.

The meeting was called on very short notice. It was to take place at 1300 hrs, and the leaders were told to come by car and to return the same day. There were some 60 or 70 people, all told, REICHSLEITERS, GAULEITERS, SA and SS leaders, but no generals or leaders of the WAFFEN SS. The members were lined up on three sides of a large and still undamaged room of the REICHS Chancellory. In a few minutes HITLER entered, followed by BORMANN. Both men shook hands with all present, and thereafter HITLER spoke briefly to REICHS Labor Leader HIERL. He spoke in a low voice, and only parts of the conversation could be understood, but at the end HITLER presented HIERL with a case containing the highest German decoration. The reception was followed by a simple luncheon, consisting of stew and real coffee. HITLER left the room at 1530, and an hour and one-half later the leaders reassembled to hear his speech.

When he returned to make his speech, HITLER sat at a small table, on which were his notes and a glass of water. Everyone noticed his stooped position and the fact that his left hand - not the right one which was wounded on 20 July - was shaking so badly that at times his entire body was trembling. It seemed to be causing the FUEHRER great discomfort. At first his voice was low, but it gained strength and later reached its customary climax. No change in his voice was noticeable.

HITLER's speech lasted approximately one hour and one-half. For the first time the impression upon his listeners was not convincing. HITLER seemed to be struggling to convey a feeling of inner hope to the assembled Party leaders, but the sensational news which all anticipated was not forthcoming. The substance of his address follows:

He stated that the Russian onslaught was of paramount concern to the people, because it was accompanied by serious misdeeds against them. However, it was expected that the attack could be stopped. A large-scale counter-attack was planned, but had been delayed chiefly because of great losses of heavy weapons. HITLER praised the brave deeds of certain generals, and expressed the wish that others were also "carved of the same wood". Many lacked the ability to improvise, which was a necessity. He singled out as especially brave Gen HUBE, who had been killed.
In the main message of his speech, however, he called upon them not to become faint-hearted but to develop supreme strength, and then the war could still be won. The leaders would have to guide the people personally, and bring out a "Teutonic Fury" in them. He declared that this was the time to find out the true quality of the German people. Should the German people give up, then it would be demonstrated that they had no moral worth, and in that case they would deserve destruction. That would be the rightful judgement of history and Providence.

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S E C R E T

Ref No SAIC/18
24 May 45

Concerning military affairs he brought out four points:
i) Germany must remain on the defensive in the WEST. (HITLER had great faith in the Westwall and the RHINE).

ii) In the EAST a powerful counter-offensive would be prepared. (He did not indicate the sector).

iii) The new U-boats were outstanding; they represented a revolution in the technical field. DOENITZ was a phenomenally outstanding leader.

iv) The new MESSERSCHMITT fighter plane, ME-262, was without equal anywhere in the world. It could not be damaged in combat, the only losses occurred as a result of accidents in take-offs or landings, and these were insignificant. Production was on a tremendous scale, and the results would soon be noticeable in the air. HITLER then spoke of the mistakes of the German Air Force, declaring that the greatest fault had been the choosing of the wrong models.

Towards the end of his address HITLER spoke of political events. He stated that England would hold out to the end; she was firmly allied to Russia and would not give in. On the other hand, he predicted that, if Germany held firm during the crisis, a day would come when serious conflicts would arise between Russia and the US.
Concluding his speech, HITLER thanked the assembled leaders for their cooperation and loyalty, and then spoke a few words concerning his health. This he had never done before, so it was especially noteworthy and had a depressing effect upon his listeners. He said that Frederick the Great had returned from the wars an ill and broken man. Now he, himself, felt the burdens of war, which had become evident in symptoms of ill health. Previously, owing to great worry he had suffered from a trembling leg. Now, however, the infirmity was in his left arm. He hoped it would not move to his head, for a shaky head would be unpleasant. But even if that occurred he could only say, "My heart will never quake; that remains ice-cold". He went on to say that after the attempt of 20 July the doctor read his pulse and found that it had remained at its customary 72 beats. He also mentioned trouble with his vocal chords and admitted that he had undergone an operation not long before.
In closing he stated that he would in the future be forced to take some harsh measures. The leaders should not misjudge him if he should take steps which they did not understand.

When HITLER had finished, BORMANN spoke a few words about loyalty and courage and readiness to follow HITLER unto death. Before leaving, HITLER conversed briefly with a few people - Dr GOEBBELS, Dr LEY, GAULEITER HIRTZ, and BACKE. Then he said he must leave, as others were already awaiting him in another room.

24 May 1945

SEVENTH ARMY INTERROGATION CENTER

Paul Kubala
cmv.

PAUL KUBALA,
Maj, MI,
Commanding.

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Col Kingman Doyle to ... Treasury Dept ... 3/11/49 ...

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MOBILE FIELD INTERROGATION UNIT NO 5
SEVENTH ARMY

SECRET
Auth: CG, 7th Army
Init: E.K.
Date: 27 Apr 45

PW Intelligence Bulletin

No 5/752 — 27 April 45

Address briefs and requests to Hq FID, MIS, APO 887.

CONTENTS

I. GENERAL OFFICERS

A. GEN D. ART (LT GEN) CURT GALLENKAMP, FUEHRERRESERVE, OKH
B. GEN D. INF (LT GEN) FRIEDRICH HERRLEIN, C IN C WEST HQ
C. GENLT (MAJ GEN) PAUL MAHLMANN, EX-CG 353 INF DIV
D. GENLT (MAJ GEN) OTTO MATTERSTOCK, FUEHRERRESERVE OKH
E. GENLT (MAJ GEN) EUGEN OBERHAUSER, CHIEF SIGNAL OFFICER C IN C WEST
F. GENLT (MAJ GEN) HANS JUERGEN VON WITZENDORF, CG FLAK ERS (REPL) DIV
G. GENMAJ (BRIG GEN) WILHELM KEIPER, FUEHRERRESERVE, OKH

II. TECHNICAL INTELLIGENCE

A. SELF-STEERING AA PROJECTILES
B. ANTI-RADAR MATERIAL FOR SUBMARINES
C. CORFU RADAR SET
D. MINEFIELD MARKING
E. CARDBOARD GRENADE AND IGNITER
F. EXPLOSIVE CHARGE FOR DESTROYING RAILS
G. MINE DESTRUCTOR (DETONATING ROLLERS) FOR TANKS
H. ONE-SHOT FLAMETHROWER

III. LAST DITCH DEFENSE

A. NATIONAL REDOUBT
B. BIOLOGICAL WARFARE
C. CHEMICAL WARFARE
D. WEHRWOLF ACTIVITIES

IV. SCIENTIFIC RESEARCH

A. ORGANIZATION OF AIR MINISTRY RESEARCH INSTITUTIONS
B. CHEMICAL RESEARCH POST, WEHRKREIS III
C. RELEASE OF GERMAN SCIENTISTS FROM THE ARMY

V. MISCELLANY

SECRET

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0291

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I. GENERAL OFFICERS

A. GEN D. ART (LT GEN) CURT GALLENKAMP, FORMERLY GERMAN GENERAL STAFF
Rating: B-2 Date of Information: See Text Interrogator: G.W.G.

1. Personal History

Gen GALLENKAMP is a typical German General Staff officer, proud of his profession, and satisfied that he has done a fine job throughout his military career. He is especially proud of the fact that he took an active part in the rebuilding of the German Army between the two World Wars. He is opposed to the Nazi Party mainly on the grounds that the Army and the conduct of the war should have been left in the hands of the General Staff. He admits that the General Staff is partially responsible for the war, inasmuch as it failed to stop the Nazi leaders at an early date.

Gifted with an excellent memory, the Gen has a thorough knowledge of the history of the German Army and its reconstruction after 1919. He knows all the officers on the General Staff; he assisted at all important military conferences which took place before the war; and he has detailed knowledge of the plans for the invasion of Britain in 1940. He is anxious to work on the rebuilding of Germany, or of any other country, provided that he can obtain a post where he can demonstrate his abilities as an organizer, builder, and economic advisor.

17 Feb	1890	Born at MOSEL/RHINE, son of an arty officer.
Mar	1909	Entered Army.
	1909	KRIEGSSCHULE (Military School), POTSDAM.
1 Aug	10	Commissioned LT (2nd Lt), date of rank 1908.
30 Sep	10	Adj on Staff of MAJ ROSTOFF, 7 Arty Regt.
1 Oct	13	Adj 14 Mounted Bn, SAARBURG, LORRAINE.
Aug	14	Bn attached to 7 Cav Div.
	16	Adj General Staff, 105 Inf Div.
	16	Adj, 259 Arty Regt.
1 Oct	16	Promoted to O/LT (1st Lt). Ib (G-4), 105 Inf Div.
May	17	Ib (G-4), 84 Div.
Oct	17	Ic (G-2), LANDWEHR Corps.
Dec	17	Promoted to HPTM (Capt).
Feb	18	General Staff School, SEDAN.
Apr-Nov	18	General Staff of the GROSSES HAUPTQUARTIER (in charge of foreign armies for the Balkans and the Orient).
Nov	18	Sent to COLOGNE with MAJ VON JAHRREIS to suppress revolts.
Dec 18-Jan	19	Sick.
Jan 19-Oct	19	General Staff, BERLIN, under MAJ BOETTICHER, T-3 Section (in charge of observation of armies of states formerly componants of Austrian Monarchy).
Oct	19	ABWEHR ABT I (Counter Intelligence, Section I) AKTIVER NACHRICHTEN-DIENST (Active Intelligence Service). Was concerned with Eastern affairs, under OBSTLT (Lt Col) GEMPP.
1920-Oct	23	Same Dept, working on Eastern and Western affairs in cooperation with the German Overseas Service.
1 Oct 23-Dec	26	CO, Arty Btry, FULDA.
Jan	27	General Staff. Adj to Chief of the TRUPPENAMT (Personnel Section) Gen WETZEL, the former Ia (G-3) under Gen LUDENDORF.
Apr	27	Adj to Gen VON BLOMBERG, Chief of the General Staff, with whom he toured Europe and Russia.
1 Oct	29	Promoted to MAJ (date of rank 1 Feb 27).
Oct 29-Oct	30	General Staff. Adj to Gen VON HAMMERSTEIN.
Oct 30-Oct	32	Chief of the TRUPPENAMT (Personnel Section) of the General Staff. His work in this section was concerned with:

a) Tng of military personnel outside the 100,000-man Army.

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0298

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b) Tng of the GAF, tng of Reserve Officers and NCO's in Russia.
c) Research in Russia for the development of CW and tanks.
d) In charge of the "HAUSHALT" (household) - the 25 million marks "stolen" from the REICHSTAG annually. The money went through his hands, and was used for the purposes mentioned above (a, b, and c). He was responsible only to the Chief of the General Staff.
e) In charge of the Central Files.

Oct 32 Promoted to OBSTLT (Lt Col).
Dec 33-Jun 37 Representative of the WEHRMACHT in the demilitarized zone between PRUEM and KARLSRUHE. During this period he was in charge of:
a) Tng of Police Regts (later to be enrolled in the WEHRMACHT) in COBLENZ, FRANKFURT, WIESBADEN, DARMSTADT, WORMS, and ERFURT.
b) The organization of a SPERRORGANIZATION (System of fortifications) between the French-German frontier and the RHINE, as a defense against a possible French attack. He had 56 Labor Bns under his command for this work.
c) He represented the WEHRMACHT at all official affairs and ceremonies.

Dec 34 Promoted to OBST (Col).
Jun 37 Arty CO, IV Corps, MUENSTER, under KLUGE.
1 Feb 38 Promoted to GENMAJ (Brig Gen).
1 Apr 38 Chief of the General Staff, III Army Corps, BERLIN. As such he was chief of the WEHRKREIS under Gen VON WITZLEBEN, and later, Gen VON HASE. In this capacity he took part in the planning, and later, the execution, of the occupation of the Sudetenland, and in 1939 the invasion of Poland.
1 Oct 39 CG, 78 Inf Div. Trained his division in the KEHL area in preparation for the invasion of France. However, at the last moment an epidemic broke out among his horses, and to his great disappointment 78 Div was held in reserve.
1 Mar 40 Promoted to GENLT (Maj Gen).
15 Jun 40 In France with 78 Inf Div. Reorganized plans for the economic development of the MARNE Dept. Preparatory tng at LE HAVRE for the invasion of England (Code name for operation: SEELOEWE).
25 Mar 41 To Poland with 78 Div. Later, in July, was engaged in heavy fighting in Poland and Russia. The Div was encircled for four weeks. The Gen fell ill, and was relieved of his command by Gen VOELKERS, Oct 41.
Mar 42 Z.B.V. AOK 7 (Special assignment with Seventh Army), under GENOBST (Col Gen) DOLLMAN, tng divs from the WEST for employment in the EAST.
1 Apr 42 Promoted to GEN D. ART (Lt Gen), taking over command of LXXX Corps at POITIERS (Corps area LOIRE to SOUTH of GIRONDE).
8 Aug 44 Received orders to withdraw entire Corps to RHEIMS.
10 Aug 44 Relinquished command to GEN D. INF (Lt Gen) BAYER, because of illness.
12 Aug 44 Left for BAD MERGENTHEIM, where he has been under treatment ever since. He had expected to get a medical discharge, and was waiting for a medical board examination.
12 Apr 45 Captured at hospital by agents of CIC, Seventh US Army.

B. GEN D. INF (LT GEN) FRIEDRICH HERRLEIN
Rating: C-3 Date of Information: End Mar 45 Interrogator: H.W.F.

1. Personal History

Gen HERRLEIN was attached to OB WEST (C in C WEST) and claims to have been one

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of KESSELRING's assistants in stabilizing the Western front. He appears to be an opportunist, and his views indicate that at one time he was very close to the Party. He still expresses admiration for GOEBBELS, and his only grudge against HITLER is the fact that he has lost the war. It is doubtful whether he speaks with complete frankness.

27 Apr 1889	Born in EHRENBREITSTEIN, son of a regular Army Officer.
1910	Officer Candidate, 3 Guard Regt, BERLIN.
11	Commissioned LT (2nd Lt).
14-17	2 Guard Res Regt, served as Bn Adj, Regtl Adj, Bn CO, in France and Russia.
15	Promoted to O/LT (1st Lt).
18	Adj in Gen Staff School, SEDAN, and during the latter part of the year Ib (G-4), 242 Inf Div. Promoted to HPTM (Capt).
19	Formed Free Corps in ZEHLENDORF, near BERLIN, and took part in the fighting on the Lithuanian border.
20	Bn CO in STETTIN. Later Co CO due to reduction of German Armed Forces. Toward the end of 1920 he was Co CO in 6 Regt, RATZEBURG near LUEBECK.
22-23	FUEHRERGEHILFENAUSBILDUNG (camouflaged General Staff School), STETTIN, but source never became a member of the German General Staff.
24	Regtl Adj, 6 Inf Regt, LUEBECK.
27	Co CO, 9 Inf Regt, POTSDAM.
31	Promoted to MAJ, Hq 2 Bn, 9 Inf Regt.
34	Bn CO, 16 Inf Regt, BREMEN. Promoted to OBSTLT (Lt Col).
36	CO, 116 Inf Regt.
37	Promoted to OBST (Col).
39-41	Took part in the French campaign with 116 Inf Regt.
1 Jan 41	Promoted to GENMAJ (Brig Gen).
Feb 41	CG, 71 Inf Div.
Mar 41	With 18 Mtz Div during invasion of Russia.
Sep 41	Decorated with Knight's Cross.
Dec 41-Feb 42	In Germany, ill.
Feb 42-Oct 43	Chief of Inf at OKH, LOETZEN.
1 Sep 42	Promoted to GENLT (Maj Gen).
Oct 43	CG, LV Corps, in Russia.
1 Feb 44	Promoted to GEN D. INF (Lt Gen).
Feb 45	Recalled to Germany.
12 Mar 45	SONDERBEAUFRAGTER (Special Observer) C in C (OB) WEST for Army Group G and 19 Army.
19 Apr 45	Captured near the MILSEBURG, RHOEN, Bavaria-Hesson.

2. Circumstances of Capture

On 5 Apr 45, during a tour of inspection, Gen HERRLEIN visited Lt Col HACKEMANN's (PW) command in GERSFELD. He was billetted overnight in a small village between GERSFELD and POPPENHAUSEN. The next morning he saw US patrols in every direction, so he withdrew with his orderly and driver towards the WASSERKUPPE. There he camped for a few days before moving on towards the MILSEBURG, a hill in the RHOEN Mountains with which he had been familiar since boyhood, where he lived in a cabin until his capture, 19 April 45. He believes that he was betrayed by one of the local inhabitants. He had planned to remain in hiding until the end of the war, which he expected within two or three weeks, believing that the Allies would not imprison him after the cessation of hostilities.

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3. Mission

In regard to his duties as Special Observer, C in C WEST, Gen HERRLEIN explains that Field Marshal KESSELRING had asked for three old, experienced generals, who were to act in a purely advisory capacity, with special attention to the supervision of rear echelon activities. He stressed the fact that he was not permitted to interfere with tactical decisions. He was unable to carry out his duties successfully because of the lack of gasoline and the general chaos behind the lines. The other two generals selected as advisors were GEN D. PZ. TRUPPEN (Lt Gen) KEMPF for Army Group B and GEN D. AR (Lt Gen) LOCH for Army Group H.

4. Personalities

Field Marshal KESSELRING

Source reported to KESSELRING on 15 Mar at ZIEGENBERG, TAUNUS. He gave him the impression of not yet having recovered. He was very quiet, under medical care, and appears to have kept a diet.

GEN D. INF (Lt Gen) OBSTFELDER	CG, 7 Army.
GEN D. ART (Lt Gen) RAUS	CG, 19 Army.
OBST (Col) BUCHNER	HOEHERER OFFIZIER FUER JAEGER U'D GEBIRGSJAEGER-EINHEITEN (Officer in charge of Light Infantry and Mountain Infantry Units), MITTENWALD, Bavaria, according to a document dated 6 Apr 45. Specialist in mountain warfare tng, on the staff of the Chief of Inf, until Feb 43, when he was given command of a mountain inf regt in Russia.
GEN D. INF (Lt Gen) JASCHKE	Chief of Inf since Oct 43.

C. GENLT (Maj Gen) Paul MAHLMANN
Rating: B-2 Date of Information: Mar 45 Interrogator: F.J.S.

1. Source

Gen MAHLMANN has been out of contact with operations during the past three months which he spent in the hospital. He claims to be opposed to the Nazi regime.

1892	Born in GISPERSLEBEN near ERFURT.
1909-13	Cadet Corps near NAUMBURG and at GROSS LICHTERFELD, near BERLIN.
Jan 14	Commissioned LT (2nd Lt); assigned to 98 Inf Regt, METZ.
14-16	In France with 130 Inf Regt.
16-Aug 17	273 Reserve Inf Regt, LEMBERG, Galicia.
Aug 17-Jan 18	With same unit in the SOISSONS-LAON-VERDUN areas. Promoted to O/LT (1st Lt).
19-21	In FREI KORPS under MAERCKER against the Communists.
Oct 21-Apr 23	Hq Training Area, KOENIGSBURG, near DRESDEN.
Apr 23	Assigned to 16 Inf Regt, OLDENBURG, near BREMEN.
24-25	Attended course for General Staff work at MUENSTER and STETTIN.
Apr 25	Promoted to HPTM (Capt).
Oct 25	Co CO, 16 Inf Regt.
32	Organized defenses opposite Polish border with Hq at KRONE and SCHNEIDEMUEHLE.

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Mar 34	Regtl Adj, WACH Regt, BERLIN.
May 34	Promoted to MAJ.
Oct 35-Sep 39	Bn Commander, 57 Inf Regt, SIEGEN.
Oct 36	Promoted to OBSTLT (Lt Col).
Jun 39	Promoted to OBST (Col).
Sep 39-Jun 41	CO, 181 Inf Regt in France.
41-42	With same unit on Eastern front.
Feb 42	CO, 137 Inf Div on Eastern front.
Jun 42	Returned to Germany because of ill health. Assigned to WIESBADEN as instructor of officer candidates.
Nov 42	Transferred to KASSEL, similar assignment.
Jan 43	Promoted to GENMAJ (Brig Gen).
Jan 43-Jul 43	CO, 147 Inf Div, near KIEV.
Jul 43	CG, 39 Inf Div, near POLTAVA, Ukraine.
Nov 43	Set up 353 Inf Div near BREST, France.
Jun 44-Nov 44	CG of same unit in Battle of France, and in DUEREN area, Germany.
Jun 44	Promoted to GENLT (Maj Gen).
16 Dec 44	Sent home to SIEGEN because of ill health.
7 Jan 45	Bombed out; moved to BAD KISSINGEN.
Feb 45	Relieved as CO of 353 Inf Div by OBST (Col) KOPPENWALLNER.

D. GENLT (Maj Gen) Otto MATTERSTOCK
Rating: B-2 Date of Information: Feb 1945 Interrogator: F.J.S.

1. Personal History

This 56-year old general has been constantly assigned to the training of units. At first he was slightly security-conscious, but later became very cooperative. In the hospital since Feb 45 after having been in a repl pool, he has not had much contact with present day situation in the WEHRMACHT.

1889	Born in KARBACH, district of Mainfranken.
Jul 1909	Entered Army as officer candidate, 17 Bavarian Inf Regt, GERMERSHEIM.
09-Sep 16	17 Bavarian Inf Regt.
Sep 16-Nov 17	PW of the British.
Aug 18	Repatriated.
18	Worked on demobilization program, at HAMELBURG.
26 Oct 18	Promoted to HPTM (Capt).
20	Discharged from Army.
Jul 20-34	BAYRISCHE LANDPOLIZEI (Bavarian State Police).
Oct 34	CO, 2 Bn, 21 (AMBERG) Regt.
Jan 37	Promoted to OBSTLT (Lt Col); on staff of 21 (AMBERG) Regt.
Jun 38	Military Commander of WUERZBURG.
Sep 39	37 ERSATZ (Repl) Regt, ERLANGEN.
Dec 39	CO, 330 Inf Regt, 138 Inf Div, MUENSINGEN.
May 40	To LONGOON area of MAGINOT Line with 330 Inf Regt.
Jun 40	Assigned as inf instructor in 330 Inf Regt in Czechoslovakia.
Apr 41	Inf instructor in RADKERSBURG near GRAZ.
May 41	Organized 716 Inf Div, BIELEFELD.
Jun 41	Patrol duty on Atlantic Coast (Sasonne area) with 716 Inf Div.
Oct 41	Promoted to GENMAJ (Brig Gen).
Feb 42	To ORNE-VIRE area with same unit.
Dec 42	Promoted to GENLT (Maj Gen).

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1 May 43	Assigned to LUFTFLOTTE 5, Norway, for training air personnel for infantry duty in the area between TRONDHEIM and OSLO.
Jul 43-Sep 43	FUEHRERRESERVE (Officers Replacement Pool), OKH.
Sep 43	Sent to NOWOGRAD WOLYNSKI, Ukraine, to train inf troops and supervise defenses. CG, 147 Res Inf Div.
Jan 44	FUEHRERRESERVE, OKH.
Apr 44	Assigned to WEHRKREIS XII to select men fit for service ("KV") from those previously classified as ineligible.
Aug 44	CO, "B-1" defense line on the Eastern front; supervised defenses in WEHRKREIS XXI.
Jan 45	Called to task by HIMMLER for permitting Russian advance of 215 km in his sector (POSEN-LODZ area). Source gave as excuse the fact that he was charged only with building the defenses, and also that there were too few troops in his area.
5 Feb 45	Wounded in air raid while at home in WUERZBURG.
7 Apr 45	Captured while in hospital in BAD KISSINGEN.

E. GENLT (MAJ GEN) EUGEN OBERHAEUSSER

1. Personal History

Gen OBERHAEUSSER is 56 years old. He is disgusted with the Nazi Party, although he feels that Germany was justified in starting the war. He still believes that Germany needs "LEBENSRAUM". He feels that Germany has been misunderstood and that the world will have to fight against Russia in the near future. He is certain that organized German resistance will be over shortly; consequently he was cooperative during interrogation.
Rating: B-2 Date of Information: Mar 45 Interrogator: F.J.S.

1908	Officer Candidate, 19 Inf Regt, ERLANGEN. After a few weeks he was sent to the war college at MUNICH.
09	8 "CHEVIUSLEGER" Regt (Cav).
Oct 10	Commissioned LT (2nd Lt).
Mar 14	Cav Telegraph School, MUNICH.
Jul 14-Jan 16	8 Cav Regt, Lorraine.
15	Promoted to O/LT (1st Lt).
Jan 16	Signal Bn of the BAYRISCHE Cav Div on the Eastern front.
18	7 BAYRISCHE BRIGADE in Rumania and the Caucasus. Promoted to HPTM (Capt).
Nov 18	Went to BUCHAREST with his unit.
Dec 18	Returned to MUNICH and discharged. Joined the FREI KORPS under Gen EPP to fight against the Reds in Germany.
19	17 REITER (Mounted) Regt in BAMBERG.
20-30	BAYRISCHE LANDESPOLIZEI (Bavarian State Police) as signal officer and instructor in BAMBERG.
30	LANDESPOLIZEI in LUDWIGSHAVEN.
33	Promoted to MAJ.
34	Promoted to OBSTLT (Lt Col).
Jul 35	Returned to active duty. Assigned to Sig Bn "B", MUNICH.
Oct 35	CO, 44 Sig Bn in MEISSEN near DRESDEN.
Jan 36	Promoted to OBST (Col).
Oct 37	CO, III Troop in 3 Army Corps, POTSDAM.
Aug 39	Sig Off 537 Regt, Army Group NORTH, in BAD POLTZEIN.
Sep 39	Sig Off under GENOBST (Col Gen) VON BOCK in Polish campaign.
Mar 40	To DUESSELDORF with BOCK.

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May 40	Participated in French campaign through AACHEN, BRUSSELS, VERSAILLES.
Sep 40	To POSEN with his unit.
Nov 40	Promoted to GENMAJ (Brig Gen).
42	Promoted to GENLT (Maj Gen).
Oct 43	Stationed in PARIS under Gen STUELPNAGEL as Sig Officer of all communications in France. Worked with the French P.T.T. (Communication system).
Sep 44	Sig Officer with C in C (OB) WEST, HABAY LE NEUF.
Mar 45	With RUNDSTEDT, C in C WEST, in COBLENZ.
Apr 45	Transferred to FUEHRERRESERVE after telling KESSELRING that a certain communications job could not be done. Replaced by GENMAJ (Brig Gen) GENMAJ WUERSTER, an old friend of KESSELRING.

F. GENLT (MAJ GEN) HANS JUERGEN VON WITZENDORF, CG, FLAK ERS DIV

1. Personal History

PW is a professional soldier born in Prussia. He was an artillery officer before his nineteenth birthday. Partially disabled through an accident in 1934, he has held only administrative assignments during the present war. He is afraid of the Russians due to the fact that his family owns a large estate in Silesia; but he is anxious to cooperate with the Americans, and has never been a member of the Party.

Rating: B-2 Date of Information: Apr 45 Interrogator: W.K.

10 Dec 1893	Born at GNESEN, West Prussia.
1912	LT (2nd Lt), 6 Arty Regt.
14-18	Btry Commander; later Ordnance Officer of a div and of a corps.
20	Discharged from Army; took up farming.
1 May 34	Rejoined Army as HPTM (Capt).
1 Oct 34	Assigned to 12 FLAK (AA) Regt (Code name: FAHRABTEILUNG 3).
34	Lost leg in an accident.
15 Nov 38	CO, 26 FLAK Regt, BREMEN as OBST (Col).
41	CO, FLAK Brig, protecting BREMEN area.
Jul 41	CG, FLAK ERS DIV with the designation HOEHERER KOMMANDEUR DER FLAK AUSBILDUNGS UND ERSATZ REGIMENTER (Higher Commander of AA Tng and Repl Regts).
1 Feb 43	Promoted to GENMAJ (Brig Gen).
30 Jan 45	Promoted to GENLT (Maj Gen).
18 Apr 45	Captured near STOCKACH.

2. Circumstances of Capture

On 18 April Gen VON WITZENDORF order his officers in ZIRNDORF to assemble in STOCKACH, near NUREMBERG, to discuss moving their hq to AUGSBURG if the Americans continued to advance. When the Gen arrived in STOCKACH with another officer at 1400 hrs, 18 Apr, he did not see his officers but found the Americans were already in possession of the town. Considering further retreat useless, he surrendered. He assumes that the major part of his staff was also captured at ZIRNDORF.

3. The FLAK ERSATZ DIVISION (Flak Repl Div)

The FLAK ERSATZ DIVISION is under the direction of the OKL (LUFTWAFFE High Command). It is composed of 6 AA repl regts, which train, equip and furnish the

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the personnel for the AA defenses of Germany and the AA brigs and corps deployed at the front.

Because of air attacks the div staff was moved in Oct 44 from BERLIN to WEIMAR, and at the end of Feb 45, because of the military situation, from WEIMAR to ZIRNDORF.

The Staff was composed of 12 officers and 50 men. It did not have a Gen Staff Officer. Second in command to the General was OBST (Col) GRIMMER. When the staff moved to ZIRNDORF, source did not accompany them, but moved with one other officer to WOLFENBUETTEL.

The FLAK AUSB U ERS DIV (The Flak Trng and Repl Div) is subordinate to LUFTGAU-KOMMANDO (Air Corps District Hq) VII, MUNICH. The CG of LUFTGAU VII is Gen VORWALD, whom PW describes as an energetic young general, formerly a General Staff Officer of the GAF. On 14 Apr 45 source called on him to discuss the movement of his staff to the AUGSBURG area.

FLAK ERSATZ (Flak Repl) REGT 3, ROSENHEIM was commanded by OBST (Col) HENSE. It was composed of 4 repl bns, one each in ZIRNDORF, ROSENHEIM, FRIEDRICHSHAFEN on Lake Constance, and LUDWIGSBURG, near STUTTGART.

PW could not give any information as to the present strength of the bns. Each bn consists of 1 or 2 repl btr's. For the past year the AA has not received any new recruits; on the contrary personnel has been shifted from the AA to the inf. Only discharged hospital patients have been assigned to AA btr's.

4. Additional Notes On The FLAK ERSATZ DIVISION

a) Source

O/LT (1st Lt) Heinrich KAESEWIETER, Staff, FLAK ERS DIV (Flak Repl Div), a 39-year old former lawyer of BREMEN, who was captured with GENLT (Maj Gen) VON WITZENDORF. He corroborated the statements of the Gen. Source has been in the military service only since 1938, and is not a Nazi. He is willing to cooperate with the Americans.
Rating: B-2 Date of Information: See Text Interrogator: W.K.

b) Additional Information

Until 1945 the FLAK ERSATZ DIVISION was the only source for replacements in AA units. In Mar 1945 a second FLAK ERS DIVISION was formed because of the possibility of a separation of Northern and Southern Germany. This second div was formed in WISMAR, Pomerania, and was to supply the Northern sector with AA personnel. Source does not know how far the activation of this div in WISMAR has progressed.

As no new recruits are available, women have been used recently in searchlight btr's, and are to undergo training in the AA repl bns. The female personnel were all volunteers, composed mostly of servants and salesgirls. Except for guards, they were not armed.

At the approach of the American troops the women FLAK personnel were sent home in order to avoid capture.

Following were locations of active AA units as of the middle of Mar 45:

VI FLAK KORPS - HAMBURG area,
14 FLAK DIV - LEIPZIG area,
21 FLAK DIV - DARMSTADT area.

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MFIU No 5, 27 April 45 — PW Intelligence Bulletin No 5/752

Seventh Army

G. GENMAJ (Brig Gen) WILHELM KEIPER, FUEHRERRESERVE OKH (OFFICERS REPL POOL)
Rating: B-2 Date of Information: Apr 45 Interrogator R.W.

1. Personal History

GENMAJ (Brig Gen) KEIPER, a 53-year old professional soldier, is a native of Pomerania and the son of a Protestant pastor. His ambition from childhood was to become a military leader. His Army career has been a limited one, however, and during the present war he has served only in administrative positions. He spoke freely during interrogation.

3 Jan	1893	Born at TRIBSOW, Pomerania.
	1913	Entered Army as officer candidate, 9 Inf Regt.
Jun	14	Commissioned LT (2nd Lt).
	15	Promoted to O/LT (1st Lt).
	22	Transferred to 11 Cav Regt, 2 Cav Div.
	25	Promoted to HPTM (Capt).
	28	Transferred to 12 Cav Regt, 2 Cav Div, DRESDEN.
	33	Transferred to 18 Cav Regt, 3 Cav Div, STUTTGART-CANNSTADT.
Mar	34	Promoted to MAJ.
	35	CO, 25 Sig Bn, 25 Inf Div.
	37	Promoted to OBSTLT (Lt Col)
Aug	39	Promoted to OBST (Col)
Oct	39	Signal Officer, WARSAW Hq.
Jan	40	Signal Officer, CRACOW Hq.
	41	CO of Signal Troops, KASSEL (Repl Army).
Sep	41	Earmarked as Chief Signal Officer, Mil Hq, Caucasus, but never assigned because of Russian advances as well as his own lack of technical knowledge.
Jan	42	Negotiations at Army Personnel Office, BERLIN, in order to find an assignment for him.
Mar	42	CO, FELDKOMMANDANTUR (Field Hq), KIROVGRAD.
Mar	43	Promoted to GENMAJ (Brig Gen).
Sep	43	CO, FELDKOMMANDANTUR (Field Hq), Montenegro.
Nov	44	Relieved of command and transferred to FUEHRERRESERVE, OKH.
Jan	45	On leave to SCHWAEBISCHER GMUEND for an indefinite period.
20 Apr	45	Captured at SCHWAEBISCHER GMUEND.

2. Personalities - Hearsay Information

VON RUNDSTEDT, GENERALFELDMARSCHALL (Field Marshal)	In arrest at WOERRESHOFEN/Allgaeu. He is reported to have said that all military resistance was useless. Source considers him an upright and efficient military leader.
VON BOCK, GENERALFELDMARSCHALL (Field Marshal)	Was seen by source at a state funeral in 194 At that time he is supposed to have been asked to take command of a unit. He was willing to agree, if granted certain conditions, including the right to make his own decisions. Those stipulations were denied by HITLER's Hq.
VON BRAUCHITSCH, GENERALFELDMARSCHALL (Field Marshal)	At the time he was relieved of his command in Russia in 1941, he was actually ill. During the same year source met him at a party, and noticed that he did not drink any wine, liquor or coffee.

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S E C R E T

MFIU No 2, 27 April 45 — PW Intelligence Bulletin No 5/752

Seventh Army

HAUSSER, OGRUF (SS Lt Gen)	A very able general, respected by the German Officer Corps until he became a fanatical Nazi and changed from the Army to the SS.

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MFIU No 5, 27 April 45 — PW Intelligence Bulletin No 5/752

Seventh Army

II. TECHNICAL INTELLIGENCE

A. SELF-STEERING AA PROJECTILE (SELBSTSTEUERNDE FLAKGRANATE)
(Prepared in conjunction with CIOS Investigators Dr R.W.P. and Mr W.H.)

1. Source

KEIL, Helmut, is a 33-year-old electrical engineer from BUCHEN, whose father was a LANDTAG deputy of the Social-Democratic Party, and who claims to be anti-Nazi. While acting as courier for the Air Ministry High Frequencies Department he had access to some recent German technical developments. His technical knowledge of the weapons and equipment described is not very extensive. Source was cooperative during interrogation.
Rating: B-2 Date of Information: Mid-Mar 45 Interrogator: M.N.

2. General

The task of developing the self-steering AA shell was assigned by the Air Ministry to Prof Dr WESCH of the University of HEIDELBERG, and to Prof Dr GUDDEN, of the University of PRAGUE. Although these two scientists started their experiments from two different angles, they eventually developed very similar projectiles. They were, furthermore, in constant touch with each other and visited one another's laboratories very frequently. Source is more familiar with the projectiles tested and developed by Prof WESCH than with those developed by GUDDEN. Close collaborators of Prof WESCH were Dr KRUPPKE and Miss KAMM. Dr NIKOLAUS was intimately concerned in the experiments with the sensitive substance, as was Dr JAHN, a chemist.
The code name for all experiments and research work connected with AA defense, and possibly also with CW, was FUEHRERNOTPROGRAMM (FUEHRER's Emergency Project).

3. General Principles

In the self-steering AA projectile a sensitive cell receives the modulated radiations emitted by a flying aircraft. The radiations, striking the sensitive cell, cause a capacitance change which is amplified and transformed into an energy change capable of operating the fins of the projectile, thus steering it towards its target.
Experiments have been carried out with two types of projectiles. Both of them were rocket projectiles, and both had fins similar to those of a naval torpedo. One type, however, was projected in the general direction of the approaching plane, the other was supposed to take off of its own accord upon reception of the radiations emitted by the plane.
It was found experimentally that the projectile is unable to reach its target successfully if the angle between the direction of the radiations and the axis of the projectile is greater than 20°. Therefore, the self-starting projectile was designed so as to travel at approximately the same speed as the aircraft until the angle between the direction of its flight and that of the aircraft was reduced to approx 15°; at this point a new rocket charge would be set off electrically, speeding the projectile toward the aircraft. The aircraft was always approached from the rear.

4. Tests and Experiments

All experiments were conducted with modulated radiations. Source does not know the reason for this, but assumes that the radiations emitted by a flying plane are modulated radiations. A special filter was installed to filter out all visible

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radiations, since it was thought that if light rays could influence the sensitive cell, the dropping of flares would detract the projectile from its target. In this connection source states that during experiments the light from a 2,000-watt bulb was not supposed to cause any capacitance change in the cell, when placed at a distance of approx 30 cm from it.

Experiments were carried out for heat radiations of 200° C. A perforated disk was used to obtain modulated radiations. This exposure to heat radiation was carried out in complete darkness. Later, when light was admitted to the experimental apparatus, no new change of capacitance was observed.

To determine the angle at which the radiations cause signals strong enough to operate the relays, a projectile was laid on the ground and an electric soldering iron, heated to 200° C, was dragged along the ground 100 m in front of the projectile and in a direction perpendicular to its axis. When the angle formed by the line connecting the soldering iron with the sensitive cell and the axis of the projectile decreased to 20°, the projectile moved forward.

The self-starting projectile is placed vertically on the ground, with the sensitive cell pointing upward. A concave mirror was placed around its head to direct the radiations onto the cell. At first a mirror was built into the head of the projectile, but since it was only needed to actuate the mechanism producing the initial thrust and was taking up considerable space in the steering head of the projectile, it was placed on the outside for later tests, so as to drop off as soon as the projectile left the ground.

It was found that 6-7 seconds elapsed from the time the sensitive cell received the radiation emitted by a plane flying at an altitude of 2-3,000 m (at "normal" speed) to the moment the projectile hit the plane. Also, the fins of the projectile did not move until a half-second after the corresponding capacitance changes were induced in the sensitive cell.

Experiments with the projectiles were carried out without special lenses in the steering head. The possibility that lenses might have to be used was taken into consideration. Source even believes that an order for lenses was placed with the firm LEITZ WETZLAR. It was hoped, however, that special lenses could ultimately be avoided.

Source is not familiar with the mechanical device which is operated by the relay of the electrical apparatus in the self-steering head and which in turn operates the steering fins of the projectile. He knows that each fin could move separately.

Source knows that extensive experiments have been carried out with the finished models of the projectiles, but has never heard of their actual combat employment.

5. Construction Details

The self-steering head is composed of two distinct parts (See Appendix A): the part containing the sensitive cell and the part in which the electrical apparatus (Appendix C or D) is placed. The outer ring is screwed onto the part containing the electrical apparatus. This ring has an opening approx 5 cm in diameter through which the radiations are received. The whole head is approx 25 cm long.

Due to the interference of sunlight, the radiations received by the cell are much weaker in daytime than at night. Thus the capacitance changes in the sensitive cell are different during the day and night hours. To compensate for this difference, and consequently to permit the use of the same projectile in daytime as at night, lamps are built into the projectile head. These lamps are placed either in the rear of the sensitive plate (Prof Dr GUDDEN, source claims, used an ordinary "stop" taillight for this purpose), or inside the walls of the outer ring in the form of a circular mercury lamp. For the purpose of reflecting the additional radiations onto the sensitive plate, a ring-shaped mirror is placed in the projectile head (Appendix A).

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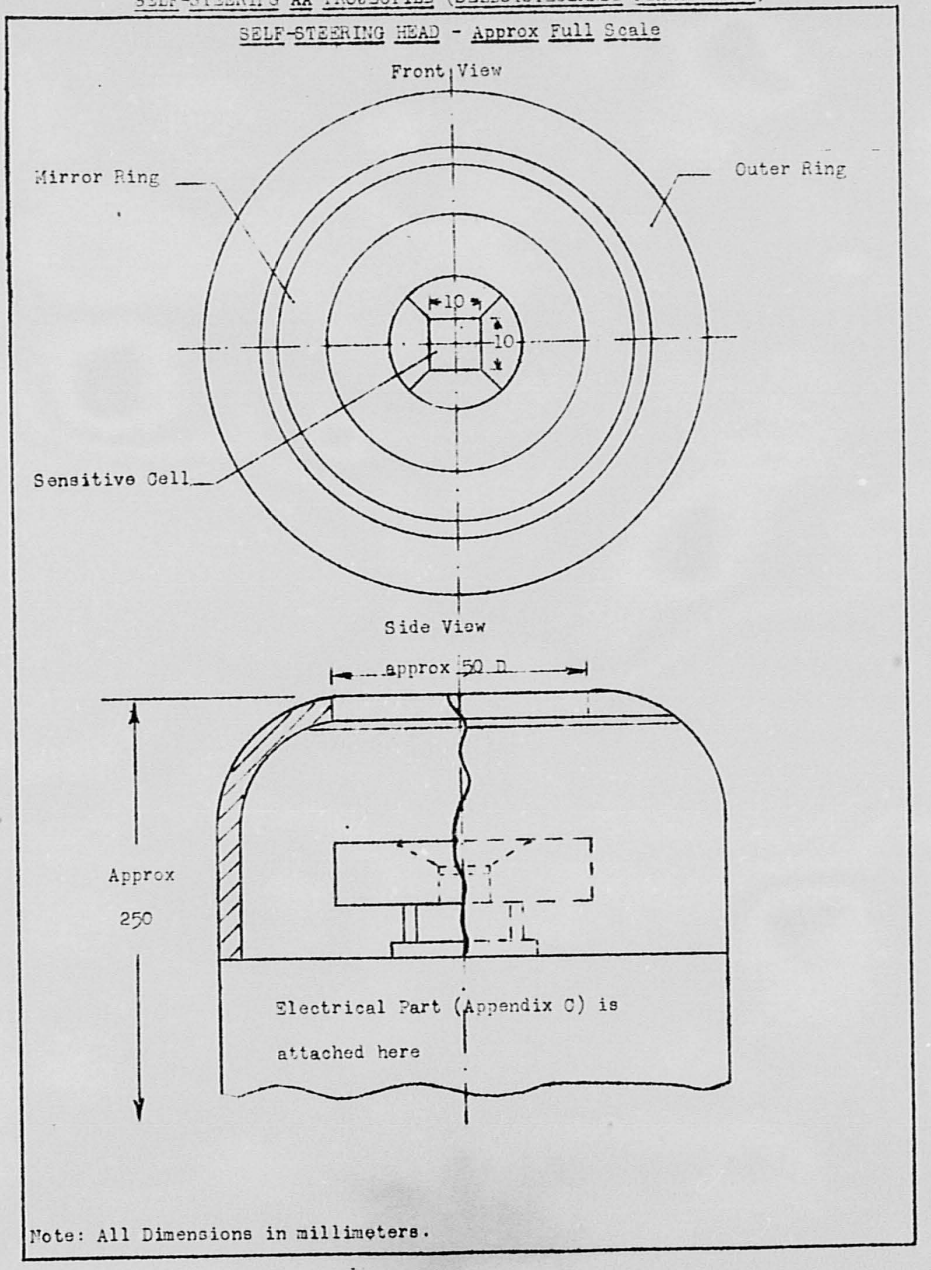
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Appendix A

SELF-STEERING AA PROJECTILE (SELBSTSTEUERNDE FLAKGRANATE)

SELF-STEERING HEAD - Approx Full Scale



Note: All Dimensions in millimeters.

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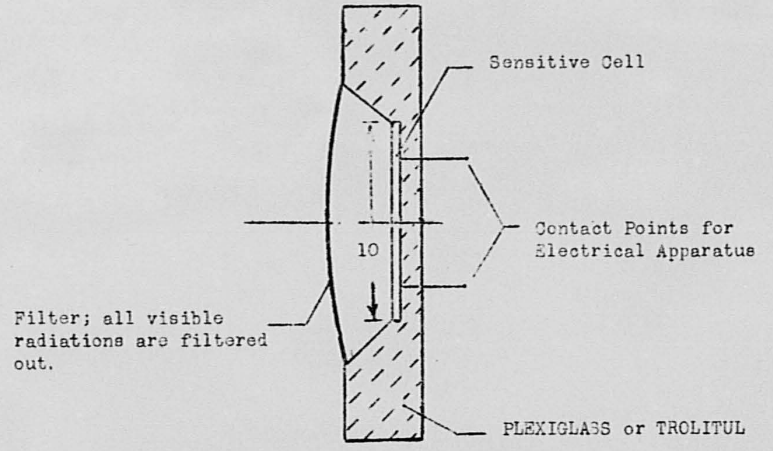
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Appendix B

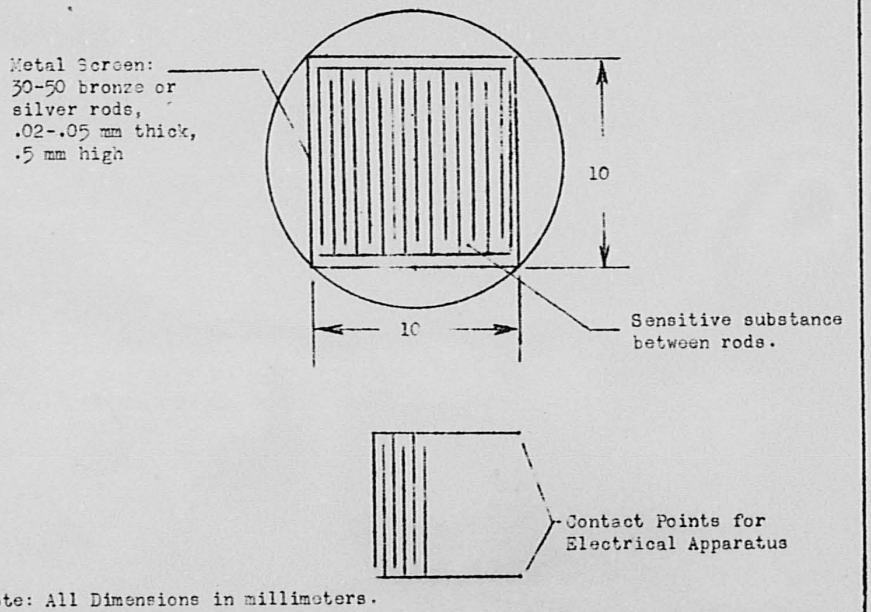
SELF-STEERING AA PROJECTILE - SENSITIVE CELL

(Not to Scale)

Sensitive Cell Mounting



Sensitive Cell Construction



Note: All Dimensions in millimeters.

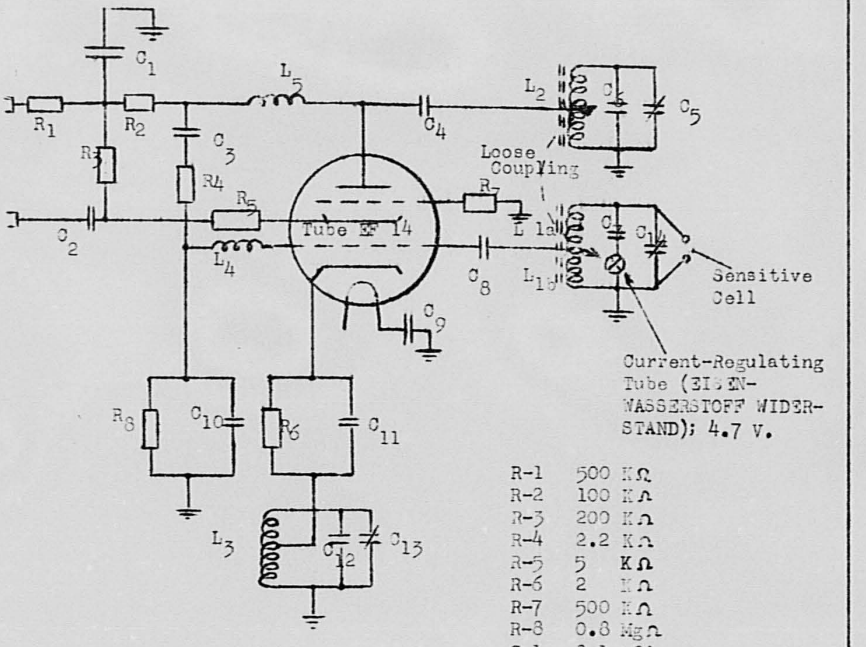
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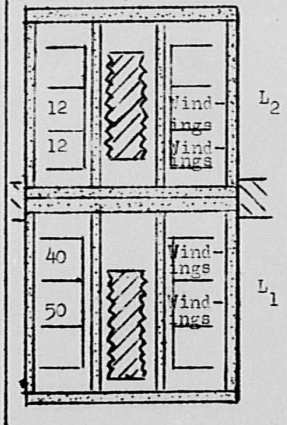
Schematic Diagram

(As Drawn by Source)

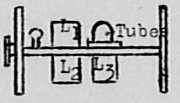


R-1	500 KΩ
R-2	100 KΩ
R-3	200 KΩ
R-4	2.2 KΩ
R-5	5 KΩ
R-6	2 KΩ
R-7	500 KΩ
R-8	0.8 MgΩ
C-1	0.1 μfd
C-2	0.5 μfd
C-3	10,000 μμfd
C-4	500 μμfd
C-5	Trimmer 20-80 μμfd
C-6	400 μμfd
C-7	1 μμfd
C-8	150 μμfd
C-9	300 μμfd
C-10	500 μμfd
C-11	300 μμfd
C-12	400 μμfd
C-13	Trimmer 20-80 μμfd
C-14	Trimmer 20-80 μμfd
L-1a	40 Windings, copper wire .3 mm D, double silk covering
L-1b	50 Windings, same as 1a
L-2	2 x 12 Windings
L-3	Same as L-1
L-4 and 5	Chokos, 300 Wdgs, .2mm

Winding of Coils



Arrangement



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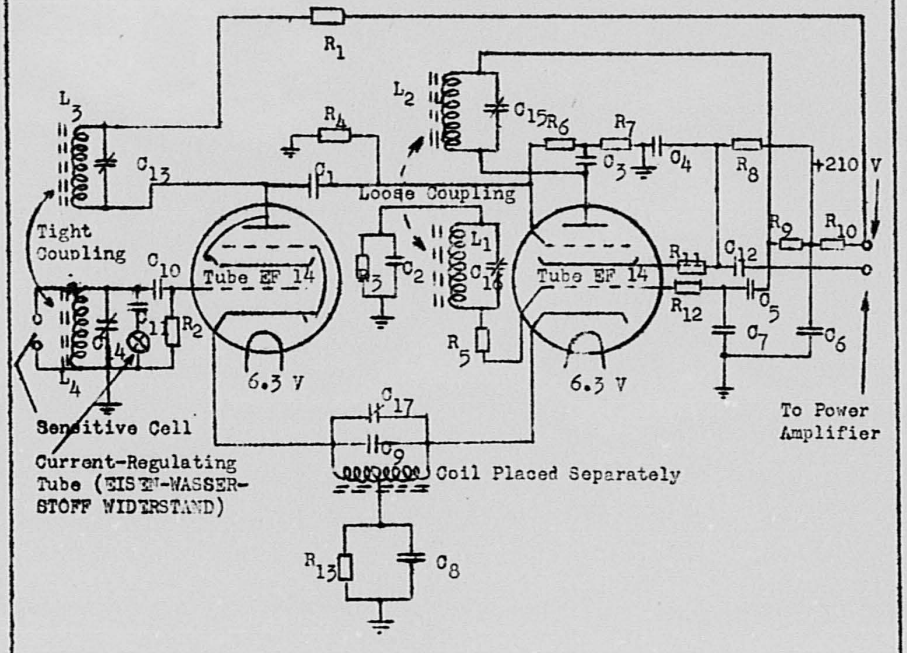
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APPENDIX D: SELF-STEERING AA PROJECTILE - ELECTRICAL APPARATUS, TYPE II

Schematic Diagram

(As Drawn by Source)



R-1	20 KΩ	C-8	300 μμfd
R-2	0.5 MgΩ	C-9	300 μμfd
R-3	0.5 MgΩ	C-10	100 μμfd
R-4	0.5 MgΩ	C-11	2 μμfd
R-5	400Ω	C-12	.1 μfd
R-6	40 KΩ	C-13	Trimmer 20-80 μμfd
R-7	350 KΩ	C-14	Trimmer 20-80 μμfd
R-8	100 KΩ	C-15	Trimmer 20-100 μμfd
R-9	0.2 MgΩ	C-16	Trimmer 20-100 μμfd
R-10	0.5 MgΩ	C-17	Trimmer 20-100 μμfd
R-11	5 KΩ	L-1	2 Megacycles, 44 Windings, .3 mm D copper wire
R-12	6 KΩ	L-2	4 Megacycles, 22 Windings, .3 mm D copper wire
R-13	50Ω	L-3, L-4	2 Megacycles, approx 45 Windings, .3 mm D copper wire
C-1	5 μμfd	L-5	2 Megacycles (Total Length), 2 x 22 Windings, .3 mm D copper wire
C-2	500 μμfd		
C-3	5 μμfd		
C-4	1,000 μμfd		
C-5	.01 μfd		
C-6	.1 μfd		
C-7	100 μμfd		

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The sensitive cell is placed in a plexiglass mounting (Appendix B), and a filter permitting the passage of invisible radiations only (SCHWARZSTRAHLUNGEN) is placed in front of it. Source knows no details about this filter, except that it was referred to as UG 6.

The sensitive cell is composed of a metal screen made of 30-50 bars, .02-.05 mm wide and .5 mm high in cross-section. Source knows of bars made of bronze and silver, but supposes that other metals were likewise used. The alternate bars are connected, as in an air condenser. The active surface of the cell is 1 x 1 cm. A substance sensitive to modulated radiations is placed between the bars. Source does not know the exact composition of the phosphorus-like substance. Lead sulphite was tried, but found unsatisfactory for shells which were to be used both in the daytime and at night.

A small generator is placed in the projectile, as well as a battery used for the heating of the tubes. Due to the short time of operation of the electrical devices, no extensive generating equipment is necessary.

6. Electrical Apparatus

Appendices C and D show schematic diagrams of the electrical apparatus used in the self-steering head, as drawn by source. Both types were in use for the experiments.

Since the initial capacity (GRUNDKAPAZITAET) of the sensitive cells may vary, tuning of the grid circuit is necessary for each sensitive cell, in the case of Type I (Appendix C). The arrangement in Type II (Appendix D) avoids this inconvenience by having, in addition, a balancing circuit which automatically tunes the grid circuit according to the initial capacity of the sensitive cell. At the same time the additional circuit shown in Appendix D causes better frequency changes in the device.

B. ANTI-RADAR SUBSTANCE FOR SUBMARINES
(Prepared in conjunction with CIOS Investigators Dr R.W.P. and Mr W.H.)

Source

KEIL, Holmut (See IIA, above)
Rating: B-2 Date of Information: Mid-Mar 45 Interrogator: M.N.

1. General

The task of finding a substance with which to cover the air shafts (SCHNORCHEL) of submarines was given to Prof Dr WESCH, of the University of HEIDELBERG, and to the PELZEHAKEN (spelling?) Research Center. (Note: Source heard about this Center, but knows neither its location nor leading scientific personalities). Prof WESCH was the first to develop a substance which, he claimed, absorbed up to 70% of the received energy, but the PELZEHAKEN Institute considered his calculations and developments incorrect. Prof WESCH and his collaborators started their experiments anew, only to find, after four months, that they had been right the first time. In the meantime, however, two factories were crippled by Allied bombing and the production of the substance was proceeding very slowly.

The code name for all experiments and research work connected with inventions pertaining to the anti-radar substance for submarines was SCHORNSTEINFEGER (Chimney Sweep). Personalities working with Prof WESCH on the SCHORNSTEINFEGER projects were Dr VETTER, Dr SOJEZ, HANSEN, and STETTER (titles unknown to source).

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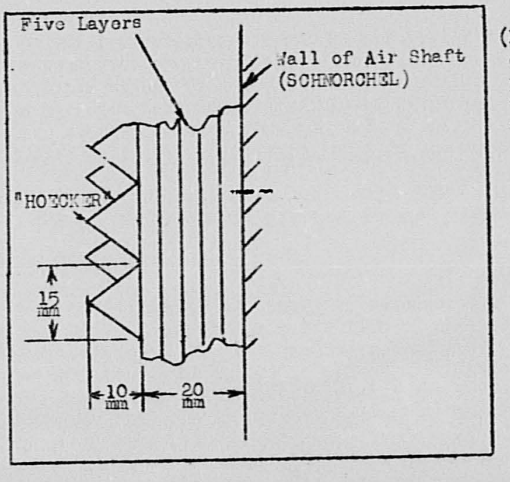
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2. Characteristics

The substance is manufactured in separate layers which are glued on the air shaft separately, starting with the bottom one. In all, five layers were to be used. The exact composition of the substance is unknown to source, but he states that the percentages of the materials used in its manufacture vary with each layer. Generally, the substance is composed of PERBUNAN (Buna-N) (40%), lampblack (3-10%), iron filings, whose fineness varies with each layer (40-60%), and graphite (1-5%). Source states that completed sample plates of the material are most likely buried in MESSELHAUSEN, where Prof WESCH had his laboratories.

It was found that the rate of absorption of received energy can be increased considerably through the addition, on the surface, of small pyramids of the same material as the outer layer. The pyramids have sharp edges, but chamfered corners at the bases. Without these pyramidal additions the rate of absorption was only 30-40% of the received energy, varying with the frequencies of the received signals; after the pyramids were added, the absorption was increased to 50-70%, depending again on the frequency of the received signals. The pyramids are an integral part of the outer layer; they are NOT subsequently attached to it.

In the final samples the complete covering for the shaft (five layers with pyramids) was 3 cm thick, of which 1 cm was taken up by the pyramids (HOECKER); the HOECKER had a base 15 x 15 mm. (See sketch below)



(Prefabricated layers of the substance are pasted separately over the whole surface of the air shaft.)

Source states that the substance also had the effect of rectifying part of the received signals. About 10% of the received energy was disposed of in this way, the rectified signals being directed into the water, source claims.

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C. CORFU RADAR SET

Source

KEIL, Helmut (See IIA, above)
Rating: B-2 Date of Information: Mid-Mar 45 Interrogator: M.N.

The CORFU GERAET is reportedly the latest development of TELEFUNKEN, or BLAUPUNKT, or both. It has a frequency range from 2 to 18 cm and by its aid bomber formations can be followed "from the very moment they take off in England". Although not primarily intended for jamming, source states that it can effectively be used for this purpose. The set is housed in a box 70 x 40 x 40 cm. Source is not familiar with its technical details, but claims that Prof Dr WESCH had received two finished sets from BERLIN mid-Mar 45 and that at least one of these sets might possibly be found in Prof WESCH's laboratories in MESSELHAUSEN.

D. MINEFIELD MARKING

Source

KEIL, Helmut (See IIA, above)
Rating: B-2 Date of Information: Mid-Mar 45 Interrogator: M.N.

Prof Dr WESCH, together with Dr KAMM, of LEUCHTSTOFF G.m.b.H., STEINBACH, Thuringia, developed a substance sensitive to infra-red rays and used for the marking of free lanes in minefields. Source knows that the substance has been in use for at least two months, since Prof WESCH received reports that it had been found very successful and was well liked by field units, especially by assault troops. Source gave the following description of the use of this substance:

An ordinary wooden peg of varying length is fitted with a wooden disc which had previously been dipped in the substance. Two types of peg-heads are known to source. The first, approx 3 cm in diameter, is wholly covered with the sensitive substance. On the second, slightly larger type (approx 5 cm in diameter), an arrow shaped space is left uncovered.

The sensitive substance is also manufactured in powder form. The powder is almost greyish in color, of coarse grain, similar in appearance to beet sugar. A 60-watt bulb, with filter, placed at a distance of 100 m from the substance, still causes it to glow.

Passages through minefields are marked by placing the pegs on both sides of the lane. The arrow-pegs are usually placed at turning points on the lanes, the arrow pointing in the direction of the free passage. The powder is sprayed on the lane itself, at the turning points.

Reconnaissance or combat patrols receive a filter allowing the passage of infra-red radiations only. Source knows nothing about the construction of such a filter, except that it is used with an ordinary flashlight. When directed towards the minefield, the infra-red rays from the flashlight cause the treated peg-heads as well as the powder to glow. The unsensitized arrow on the larger pegs shows up black.

Tanks were also equipped with infra-red filters for their searchlights, source heard.

Source saw treated peg-heads as well as the powder both in Prof WESCH's laboratories and at the Air Research Center at GATOW/BERLIN (See IVA,2,xvii,below). He estimates that 3 grams of the substance were used for each peg. The powder was packed in 10-gram cellophane bags, and source thinks that one bag was sprayed at each turning point of the lane.

Source does not know of any factories turning out the substance on a mass production basis. Prof WESCH delivered 30-40 kg of the substance monthly to BERLIN.

Dr KAMM delivered approx 50 kg of the substance each month. Source does not know the exact composition of the substance. He knows, however, that it was manu-

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factured under a pressure of 200 atmospheres. He suggests that the cellar of the PHILIP LENARD INSTITUT, HEIDELBERG, be searched for the compressors and other machinery used for the manufacture of the substance. This Institute delivered a certain amount of the substance to Prof WESCH each month. SCHLOSSERMEISTER (Chief Mechanic) UEBERLE, reportedly anti-Nazi, was foreman at this Institute. The substance was also produced in Prof WESCH's laboratories in WESSELHAUSEN.

Source heard of plans to use the substance for night-fighter plane-to-plane recognition. Each night-fighter was to be provided with an infra-red filter for its searchlight, and predetermined spots of the tail of the aircraft were to be treated with the substance. Source does not know whether these plans were ever carried out.

Source does not know the name of this substance. The term TARNSAND is unknown to him.

E. CARDBOARD GRENADE AND IGNITER

1. Source

HUTT, Emil, a 32-year-old technician from SCHLUCHTERN, Baden. For the past two years he has done experimental work in the ERSATZ field, specializing in the substitution of paper for metal. He is anxious to cooperate with the Allies, and brought all his plans with him.
Rating: B-2 Date of Information: Apr 45 Interrogator: J.M.

2. Cardboard Stick Grenade (See Appendix E)

In Oct 44, source received orders to develop paper-cased fragmentation stick grenades. His experiments proved successful, and on 15 Mar 45 the Army accepted the grenades for production. The firm of EMIL ADOLFF of REUTLINGEN was to produce the grenades at an estimated monthly production rate of 2,000,000 grenades. Tooling was to take 8 weeks, but the rapid advances of the Allied armies probably cancelled that plan.

The grenade consists of two parts:

i) The pot with shrapnel filling (about 150 g)

ii) The handle with explosive charge (about 60 g)

Ignition is effected by a delayed action fuze (4.5 seconds), which is screwed into the center of the fragmentation jacket. According to source the effectiveness of the cardboard grenade is superior to the metal grenade, since much more destruction can be achieved by the preformed shrapnel than by the explosion of the block.

Comparison:

Metal grenade		Paper grenade	
Weight	485 g	Weight	330 g
Explosive charge	160 g	Explosive charge	60 g

The grenade was impregnated with paraffin. Cost of the grenade, RM 0.22.

3. PIONIER ZUGZUENDER 45, PAPPE (Engr Igniter 45, Cardboard) (See Appendix F)

Engr Igniter 45 is the work of MAJ Dr HENSEL of the SS AKADEMIE, and was produced under license by the firm of BEIPARTH at NUREMBERG. The igniter was used chiefly for mines. It was formerly built of bakelite, except for the firing pin,

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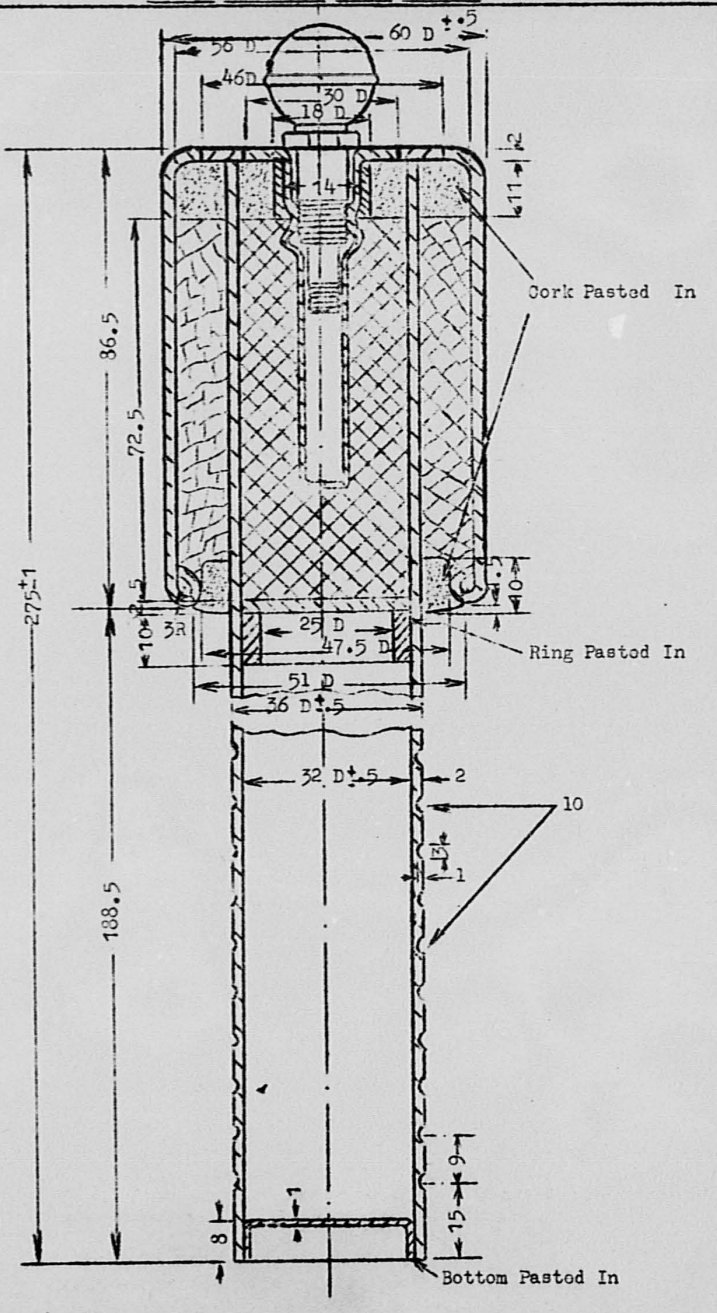
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Seventh Army
APPENDIX 2

GERMAN CARDBOARD STICK GRENADE



Approx Full Scale

Drawn from Drawing No 10897, of the EMIL ADOLFF Plant, REUTLINGEN, dated 12 Mar 45, entitled STIELHANDGRANATE 45, AUSFUEHRUNG: PAPPE (Stick Hand Grenade 45, Construction: Cardboard).

Note: All Dimensions in Millimeters

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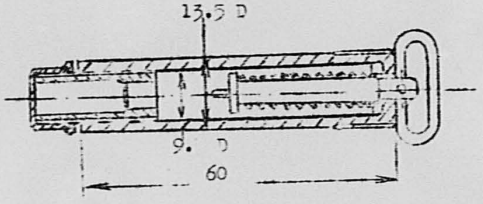
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MFIU No 5, 27 April 45 — PW Intelligence Bulletin No 5/752
Seventh Army
APPENDIX F

ENG IGNITER 45 (CARDBOARD)
(PIONIER ZUGZUENDER 45, PAPPE)

Full Scale

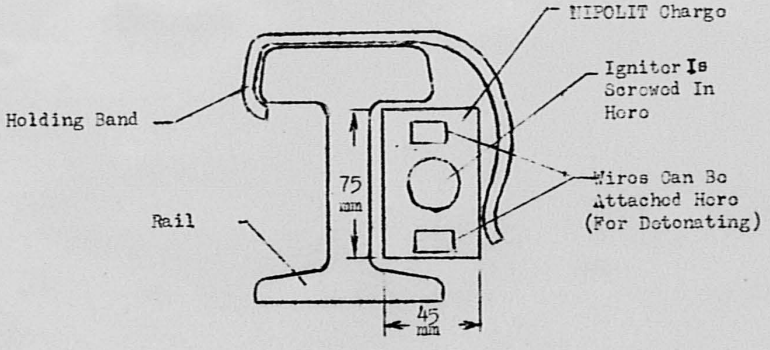


Drawn from Drawing No 10896 of the EMIL ADOLFF Plant, REUTLINGEN, dated 12 Mar 45 and entitled PIONIER-ZUGZUENDER 45, AUSFUEHRUNG: PAPPE (Eng Igniter 45, construction: Cardboard).

Note: All Dimensions in Millimeters

EXPLOSIVE CHARGE FOR RAILWAY SABOTAGE
(With Holding Band)

(Not to Scale)



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safety pin, spring, and cord. However, the bakelite was not successful, and source was ordered to develop a cardboard igniter. The result proved to be a success, and the cardboard igniter was put into production by the firm of ADOLFF, in REUTLINGEN. For use in booby traps, a longer striker is provided, and a trip wire is attached through the safety pin hole.

4. Experimental Cardboard Fins for Rockets

To compensate for the shortage of 10, 15 and 21 cm guns, experiments were conducted with rockets of those calibers. In Jan 45 source received orders to develop cardboard fins for projectiles of this type which were being made by the SKODA works. The rockets were to be launched from a special carriage. Twelve samples of cardboard fins were taken to BERLIN by source, but it was found that the necessary stabilization could not be achieved with fins of this material.

F. EXPLOSIVE CHARGE FOR DESTROYING RAILS

Source

HUTT, Emil (See IIE, above)
Rating: B-2 Date of Information: April 45 Interrogator: J.M.

Among the articles contained in the sabotage kit described in III D,1, below, is a special charge for destroying rails. A NIPOLIT charge, 75 mm x 45 mm, is clamped to the rail by means of an iron band, as shown on drawing (Appendix F). According to source, this charge is powerful enough to break the rail.

G. MINE DESTRUCTOR (DETONATING ROLLERS) FOR TANKS (Of Report No 8, 2940th Engr Tech Int Team, Hq Seventh Army)

1. Source

HEYMANN, Hans, Dr Engr, a 57-year-old vibration specialist from DARMSTADT, who devoted his life to the practical application of vibrations to various industrial devices. He is the owner of the Gyroscope Marmorite Works, HOCHSTETTEN, and the inventor of the mine exploder he describes. Source is familiar only with the general construction of the device, since the actual development of the mine exploder was done by one of his assistants. Source was badly shaken by the capture of his factory by the Allies, but answered all questions willingly. He has a very poor memory for numbers.
Rating: C-3 Date of Information: Beg Apr 45 Interrogators: M.S. and M.N.

2. Mine Exploder (GERAET 3001)

a) General

Source's first attempts to apply his knowledge of vibrations to a mine exploding device occurred in 43, when an unidentified captain, who later joined Gen GUDERIAN's staff, asked source to develop a mine exploder. Experiments were carried out with Russian TELLER mines, approx 20 x 20 cm. The tests, however, showed that the earth around the mine could not be sufficiently disturbed by the vibrations to explode the mine. Therefore, when Dr HEYMANN was again asked in 44 to build a mine exploder, he decided to apply the pulsations directly over the mines.

To accomplish this, source at first tried to use a device very similar to a hammer for de-icing of roads which source had previously developed for Dr TODT, but which the latter had rejected because of the danger of road damage. Source assigned one of his oldest assistants, Ludwig PREISSMAN, as head of the experi-

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ments and production of the mine exploder. Mr PREISSMAN, source states, is at present living in PFUNGSTADT/SEILERWEG and can supply all technical data concerning the device.

b) Operation

The "Device 3001" is a carriage attached to the front part of any tank. Two of these carriages are fastened on the tank, one in front of each track. Each carriage is built at the end of an arm, approx 3 m long. Each carriage has three hollow rollers, each on an independent swivel joint. Two rollers are mounted side by side in the rear, and the third, in the front, is placed in the gap formed by the two rear rollers, to insure complete coverage of the terrain. The rollers are kept in contact with the ground by means of adjustable torsion springs. Inside each roller, which revolves around a fixed axis, two eccentric weights (one on each side of the center of the roller) are made to revolve many times faster than the roller itself. The pulsations caused by the weights are strong enough to detonate the mines. The pulsations were of an intensity of 8-10 tons, source claims.

Source does not know any details about the gear arrangement inside each roller, nor the exact frequency of the rotating weights. He states, however, that the frequency was such as to cause at least two roller pulsations for an area covered by a usual mine.

c) Tests and Experiments

During the experimental stage, the mine exploder was attached to PANTHER and Mk IV Tanks. Source points out, however, that it can be attached to any type of tank.

Several roller profiles have been developed for different types of terrain, and were to be manufactured at the same time as the device. Satisfactory operation was obtained for all types of terrain, except snow.

The final tests of the device were carried out at the FUEHRER Hq in East Prussia, in Mar 44. At that time live mines were buried at varying depths (up to 20 cm, source believes), and were successfully exploded by the device. During the initial tests the tank traveled at 10 km/hour; later the speed of the tank on which the device was mounted was decreased to 5 km/hour.

Initially it was assumed that the exploding mine would destroy not only the roller by which it was exploded, but also the two other rollers on the carriage, and the carriage itself. During actual tests it was found that usually only one roller is destroyed by the exploding mine. All parts, however, are easily replaceable and even the 3-m-long arm can easily be replaced in case of destruction.

d) Construction Details

Each roller is approx 80 cm long and has a diameter of approx 50 cm. The total weight of the roller with the gears and weights is approx 120 kg. The rotating weights are 4-5 kg each. The downward pulsations caused by the device are of an intensity of 8-10 tons.

The arm, the carriage, and the rollers are made of ordinary sheet metal, "any kind that could be obtained", approx 3 mm thick. The weights are of ordinary iron. Only the sleeves on which the weights revolve are made of some special, unspecified material, source states. Since the rollers are expected to be destroyed by the exploding mines, the cheapest possible materials are used throughout. Even the gears are of crude and cheap construction.

A total of 3½ tons of raw materials is used for the manufacture of one complete device (arm, carriage, and three rollers).

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e) Manufacture

After the tests in East Prussia source received an order for 20 of these experimental devices, which were called the "0-Series" and were delivered to BERLIN in Feb 45. Source was told in BERLIN that these 20 mine exploders would be issued to combat units. Source does not know anything about the allotment of the devices to any particular unit, or about their employment with any particular type of tank.

It was originally planned that source should receive 10,000 tons of raw material for the production of the "regular series" of the device. This amount, however, was not available and source was to receive only about one-third, as of beg Apr 45.

f) Personalities

PREISSMAN, Ludwig	Director of factory manufacturing the "Device 3001"; residence: PFUNGSTADT/SEILERSWEG.
SCHWEINSBERGER, Dipl Eng	Chief Engineer; probable residence: ALSBACH.
REICH, Hans, Dipl Eng	Head of Materials Dept; dealings with sub-contractors.
SCHUPP	Physicist, scientific co-worker; residence: AUERBACH.

3. American Mine Exploder

In summer 44 source was told that the Americans had developed a new tank-mounted mine exploder and that details about the device would be obtained by "special means". The details, however, were not forthcoming. By a strange coincidence, an American plane dropped propaganda leaflets containing a picture of the new American mine exploder in the immediate vicinity of source's factory. The picture of the device was studied by source as well as by Army people, and source attempted to build a model similar to the one in the leaflet. The model, however, did not explode any mines. Upon re-examination of the photograph, source noticed that it was captioned DRESCHFLEGEL (flail); this gave a clue to the manner in which the chains were coupled. The model was rebuilt, and operated successfully.

The American device, it was decided, had the obvious advantage that no prefabricated parts were destroyed by the detonated mines, as in source's exploder. It was found, however, that 350 HP were necessary for its operation, against the negligible horsepower required for the "Device 3001". This was considered too much for successful application, but source was told to experiment further with the methods employed in the American device.

H. ONE SHOT FLAME THROWER (EINSTOSS FLAMMENWERFER) (See Appendices G and H)

Source

HUTT, Emil (See II E, above)
Rating: A-2 Date of Information: Apr 45 Interrogator: J.M.

1. Production

This flamethrower is a development of the DEUTSCHE WAFFEN UND MUNITIONSWERKE, BERLIN, and source states that it was recently being produced at the rate of approx 2,000 per month. The total production so far amounts to approx 12,000.

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Originally it had been planned to equip the Infantry with this weapon (12 flamethrowers to each co), but early in 1945 production was halted due to lack of oil, and the plan was dropped. Source states that the flamethrowers on hand were to be given to the WEHRWOLF.

2. Description

The weapon consists of five principal parts: trigger mechanism; ignition housing (which also contains a cartridge with powder); nozzle, with stopper; oil container; and tube.

Data, as known to source:

Length	60 cm	Range	35-40 m
Weight (empty)	1,625 g	Diameter	7 cm
Capacity	1.8 liters	Operating Pressure	35-40 ATU (German)

Appendices G and H were taken from working drawings furnished by source. Drawings of the assembled weapon shown on Appendix G and Appendix H were taken from a print of the DEUTSCHE WAFFEN UND MUNITIONSWERKE, No VHG 1454D. The tube shown in Appendix H was taken from a print of the EMIL ADOLFF Plant at REUTLINGEN.

3. Operation

Pressure on the trigger releases a striker which hits a detonator cap, exploding the cartridge. The gases released by the burning powder burn through an aluminum plate 0.2 mm thick, which seals the oil container. The pressure exerted by the gases forces the oil into the tube. When a pressure of 6-8 ATU is reached, the stopper is ejected, and the oil is forced through the nozzle. This oil spray is ignited by the same burning gases, issuing in a small jet from a 1-mm opening at the forward end of the central portion of the cartridge housing. The tube is bent at the end to facilitate feeding of the oil.

4. Refilling

The weapon is refilled by unscrewing the cartridge housing, inserting a new aluminum plate, and replacing the cartridge. To insert a new stopper, the forward part of the nozzle can be unscrewed.

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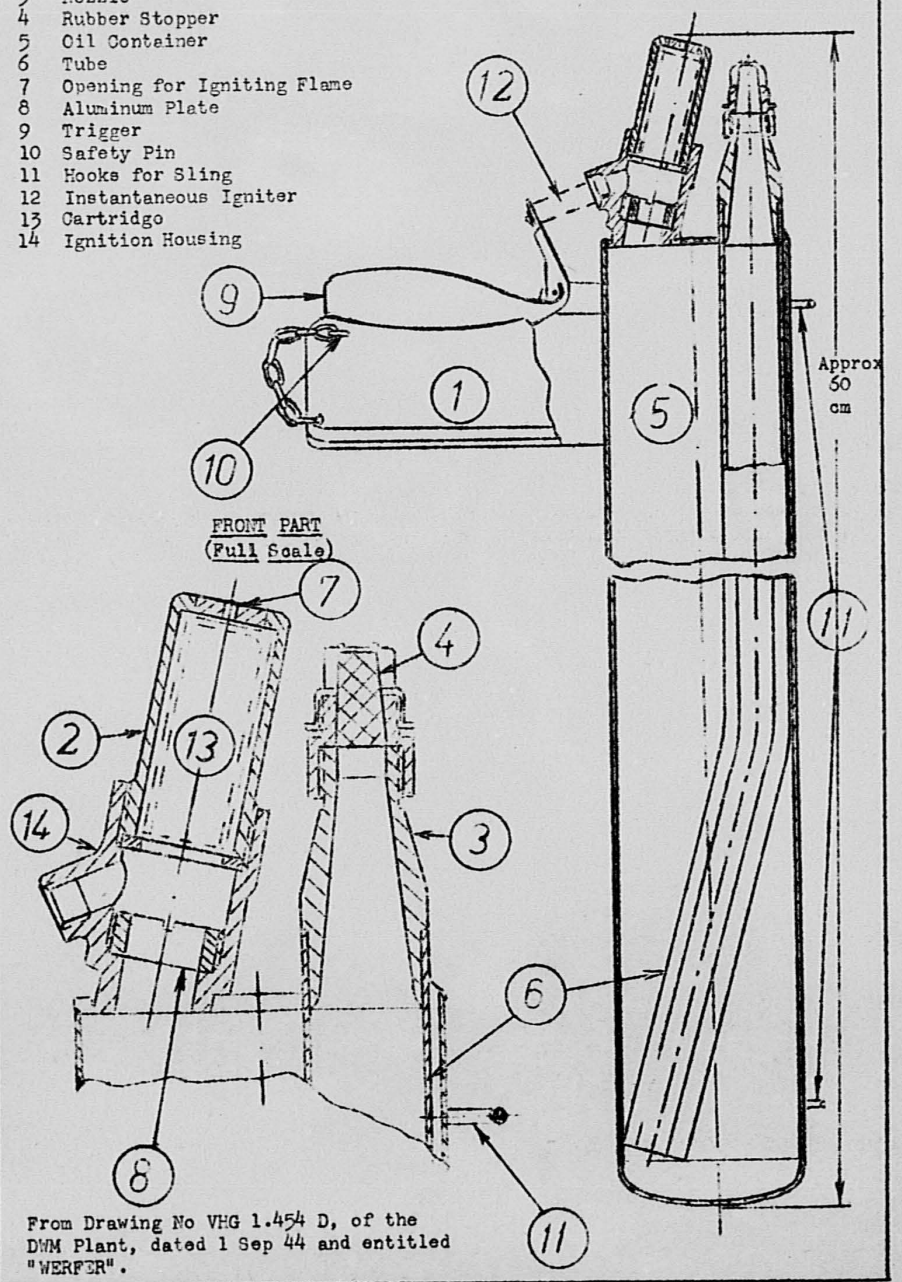
MFIU No 5, 27 April 45 — PW Intelligence Bulletin No 5/752
Seventh Army

APPENDIX G — SINGLE-SHOT FLAMETHROWER (EINSTOSS FLAMMENWERFER)

Legend

1 Trigger Housing
2 Cartridge Housing
3 Nozzle
4 Rubber Stopper
5 Oil Container
6 Tube
7 Opening for Igniting Flame
8 Aluminum Plate
9 Trigger
10 Safety Pin
11 Hooks for Sling
12 Instantaneous Igniter
13 Cartridge
14 Ignition Housing

ASSEMBLY
(Approx Half Scale)



From Drawing No VHG 1.454 D, of the DWM Plant, dated 1 Sep 44 and entitled "WERFER".

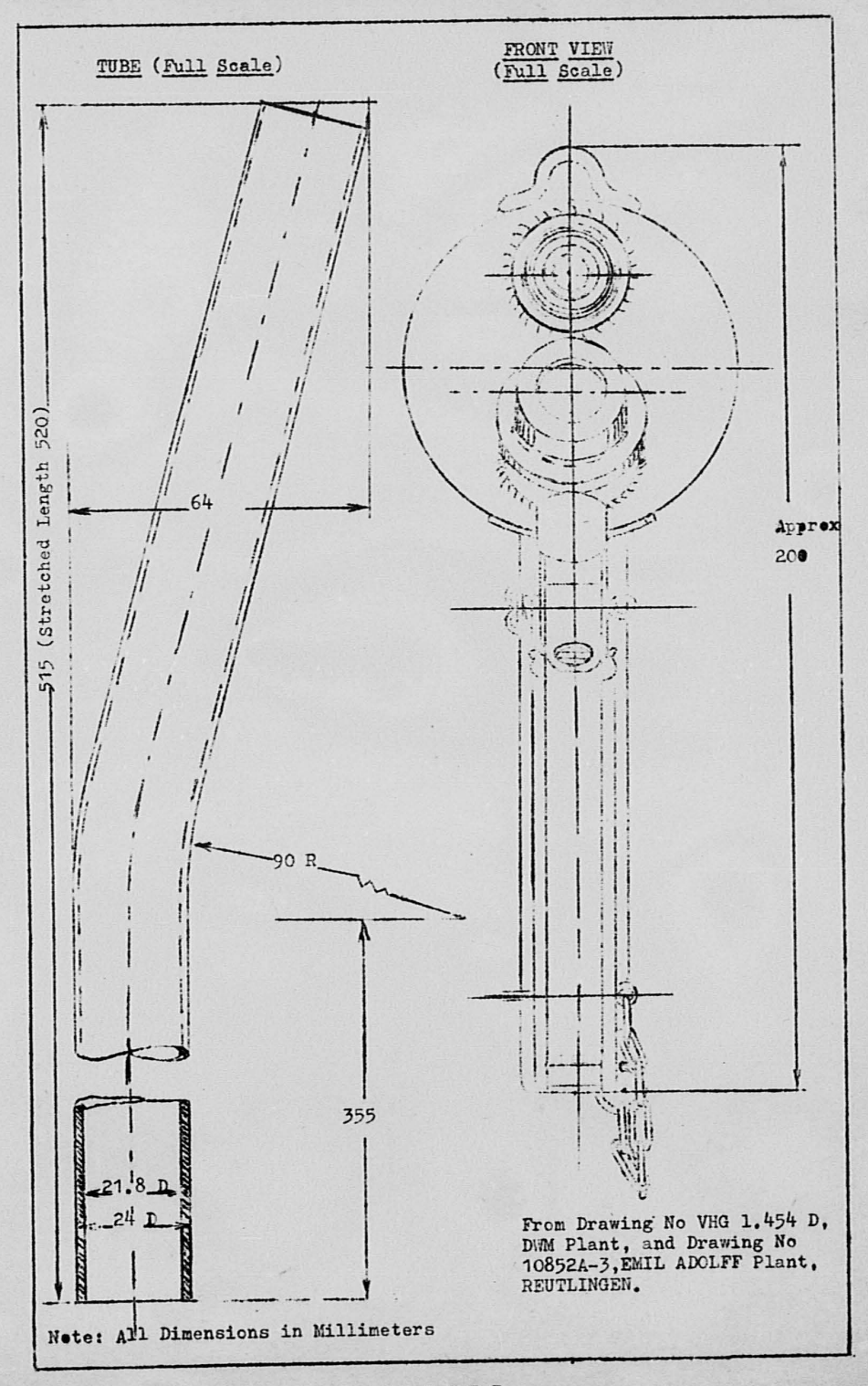
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MFIU No 5, 27 April 45 PW Intelligence Bulletin No 5/752
Seventh Army
APPENDIX H SINGLE-SHOT FLAMETHROWER (EINSTOSS FLAMMENWERFER)



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III. LAST DITCH DEFENSE

A. NATIONAL REDOUBT
Rating: B-2 Date of Information: Beg Mar 45 Interrogator: M.W.M.

1. Source

BRUNNER, Hans, O/GEFR (Opl), ALPENJAEGER (Alpine) REGT 2, a 25-year-old physicist from NEUHAUS/SCHLIERSEE, Upper Bavaria. He was released from the WEHRMACHT in 1942 and reinducted beg Mar 45. He deserted to the Allies, is very intelligent and most cooperative.

2. General

Source is very familiar with the Redoubt area, particularly the SCHLIERSEE region, having lived there all his life. He worked in MUNICH, visiting his home frequently, until reinducted into the Army. He claims to have no knowledge of defensive installations such as trenches, roadblocks, or bunkers, and to have observed no unusual troop concentrations in the area. He states that the population is decidedly anti-Nazi and certain not to give any support to defenders. He believes that rumors that this area has been chosen for a last ditch defense are based on the recent arrival of various official Party Hq rather than on actual troop concentrations.

3. Troop Dispositions

PW left GARMISCH 1 Apr 45, at which time GEB ERS BN I/98 (1 Mtn Repl Bn, 98 Regt) was housed in the JAEGER barracks. These barracks are located on the GARMISCH-GRAINAU Road, in the vic of the KREUZECK RR station. This bn consisted of approx 700 men at the time, and was composed of the following units: one HMG Co, one Mortar Co, one Inf How Co, and service training units. Weapons were very scarce, and trainees used wooden rifles.

An arty repl unit was also located in the city. The number of this unit is unknown to source. It was housed in the arty barracks which adjoin the JAEGER barracks on the NW. Most of the barracks were empty.

A friend told source that the troops now taking Officers Candidate training in MITTENWALD were told that they would not be committed on any of the present frontline sectors, but were to be used for the defense of the OBERSALZBERG. This friend believed that all the positions for this defense were ready for the men to move in. PW does not know the number of men at the school.

The BAYRISCHZELL VOLKSSTURM is divided into the following platoons: one in SCHLIERSEE, one in NEUHAUS, one in BAYRISCHZELL, one in FISCHBACHAU. The NEUHAUS group consists of approx 30 men who have only six old Italian rifles among them. None of the NEUHAUS VOLKSSTURM members has any will to fight. PW is certain that they would surrender to the Allies as soon as possible. The whole VOLKSSTURM of the area is being trained by members of the SA GRUPPENSCHULE (Group School), SCHLIERSEE. None of the personalities of this school are known to source.

On about 10 Mar 45, a group of 50 soldiers and one officer moved to the top of ROTHWAND Mountain, GSGS 4416/Y-6/Z-1503. In reply to his question as to their mission, source was told that they had come to watch for airborne landings. Source does not recall the name of the unit, but knows that only about 10% of the men know how to ski.

There was talk about a new SS Division said to be named "BAYERN" being formed in the general area of SCHLIERSEE. Source does not know where the troops were to be drawn from or what kind of troops were to be used.

4. Dumps

Source has heard much talk of underground storage dumps in the Redoubt area,

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but he has never seen one, and has only been told of one definite location. This was a gasoline dump, said to be in the vic of the MIRABELL garden, on the outskirts of SALZBURG. Source is not familiar with the SALZBURG area, and was unable to give a pinpoint location.

5. Hq Locations

Last winter the supreme SA Hq moved from MUNICH, where they were bombed out, to SCHLIERSEE. The present Hq is located in a villa on the SE outskirts of SCHLIERSEE, EAST of the SCHLIERSEE-FISCHHAUSEN Road at GSGS 4416/Y-6/Z-0911.

The GAULEITUNG (District Hq) MUNICH has been located in the WALLENBURG castle, GSGS 4416/X-6/Z-0420, since last winter. All its files are at this location.

HIMMLER, Max AMANN, and SCHWARTZ are supposed to have residences in ST QUIRIN/TEGERNSEE, GSGS 4416/Y-6/Z-0011. The three houses are next to each other and a cave is reported to have been dug behind the houses for protection against air attacks.

FRANK (Governor General of Poland) has a private villa on the Eastern outskirts of JOSEFSTHAL, GSGS/Y-6/Z-1107. He arrived there in Feb 45 with a convoy of trucks full of food and looted material. With him came a detachment of SS guards, who have been guarding his house ever since.

Close to FRANK's villa, SS troops built two large barracks which were almost completed by mid-March. Each of these barracks is approx 50 m long and 5 m high. These two buildings should be hard to detect since they are hidden between mountain ranges.

Bunkers for Party "big-shots" are supposed to be built deep underground in PULLACH, GSGS/X-6/Y-8146.

6. Food Conditions

Due to the many evacuees that have arrived in the Redoubt area in recent months the food situation has become critical. PW does not think that a prolonged stand of a large number of troops would be possible in the region. With all imports of food from the rest of Germany cut off, source thinks that famine will set in before very long unless large amounts of food have been stored in the area.

B. BIOLOGICAL WARFARE ?

(Source: HUTT, Emil, see II E, above.)
Rating: B-2 Date of Information: Apr 45 Interrogator: J.M.

In Jan 45, Dr HENGEL, chief chemist at the TECHNISCHE SS UND POLIZEI AKADEMIE, (Technical SS and Police Academy), BERLIN (See IV.D, below), asked source to design a pistol capable of firing a tube with an injection needle. Source states that he did not start work on this project. He does not know whether it was assigned to some other technician.

C. CHEMICAL WARFARE

(Source: KEIL, Holmut, see II A, above)
Rating: C-3 Date of Information: Mid-Mar 45 Interrogator: M.N.

Source heard the following rumors, current in technical circles in HEIDELBERG and BERLIN, as well as in the Air Experimental Center, GATOW/BERLIN:

i) The DO-GESCHOSS (DO-projector), a multiple projector similar to the NEBELWERFER firing compressed air shells and used during the first four months of the Russian campaign, has been further developed. The explosive power of the compressed air shells has been "tremendously" increased.

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ii) A new gas, similar to iii, below, and called SPRENGNEBEL (Explosive Fog), has been developed and extensive experiments with it were completed (as of 28 Mar 45). The gas is sprayed by aircraft or shot off through gas shells. The gas, at this stage, has no harming effect on human beings, but all metal parts coming in touch with it are immediately oxidized on their surface. After the gas has been sprayed or otherwise distributed on the ground, it acts as an explosive, and is subsequently set off (source does not know how). The explosive power was said to be "considerable".

iii) A new gas, having a paralyzing effect (LAEHMENDE WIRKUNG) on human beings has been developed. The gas is slightly heavier than air, almost colorless, but has a definite (unspecified) odor. Ammonia filters give a slight degree of protection against it, all other known filters are ineffective. Mercury is used in the manufacture of this gas; 10 cubic cm (unspecified pressure) of it are supposed to be sufficient for an area of one sq km. It is intended to paralyze the Allies' MLRs with this gas.

iv) While travelling in his capacity of courier from BERLIN to HEIDELBERG, in Dec 44, source met two scientists on the train. From the conversation he inferred that they were chemists; that they had been working on RUEGEN Island, manufacturing gases; and that they were travelling to Bavaria to set up a new plant, similar to the one on RUEGEN Island.

D. WEHRWOLF ACTIVITIES

1. Sabotage Kit
(Source: HUTT, Emil, see II E, above)
Rating: B-2 Date of Information: April 45 Interrogator: J.M.

On about 20 Mar 45, two members of the Technical SS and Police Academy (See IV D, below) called at source's firm, EMIL ADOLFF, REUTLINGEN, with an urgent order from the Academy. Source was ordered to produce 5,000 special cardboard containers, which he understood were to be used by members of the WEHRWOLF. The container looked like a German gas mask container, and could easily be mistaken for a worker's lunch kit. It was 135 mm in diameter and 400 mm high.

The kit contained the following equipment:

3 NIPOLITKOERPER (Nipolit Charge), 90 x 75 x 45 mm, weight approx 400 gr.
3 " " " 100 mm x 25 mm diameter, with thread for fuze.
1 FUSSMINE (foot mine).
1 Incendiary stick (American), see note below.
3 ZEITZUENDSCHNUERE (long fuse cord) about 20 - 60 cm long with detonating cap and pull igniter.
3 Pull Igniters, 5-7 seconds.
2 PIONIER ZUGZUENDER (Eng Pull Igniter) 42.
3 Ignition wires (blasting) with detonator.
2 BLEISTIFTZUENDER (Pencil igniters) with fuze set for 30 minutes to two hours
1 Page of instructions of equipment.
1 Explosive charge for railway sabotage, described in II F, above.

According to source, the Germans have been collecting unexploded American incendiary sticks and had them inspected at various concentration camps. Approx 250,000 were on hand, according to source.

Source was told by one of the men from the Academy that only enough Nipolit for 5,000 containers would be available, after which Donarit would have to be used. Source delivered 800 containers.

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0328

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2. Radios
(Source: KEIL, Helmut, see II A, above.)
Rating: B-3 Date of Information: See Text Interrogator: M.N.

While in BERLIN on 28 Mar 45, an engineer of the BLAUPUNKT radio factory located at the NE corner of the FORCKENBECK and CUNOSTRASSE, told source that this factory had received an order in Oct or Nov 44 for 2,000 light, portable receiver-transmitter sets, to be given to WEHRWOLF members.

3. Sabotage Mission
(Source: BRUNNER, Hans, see III A, above.)
Rating: B-3 Date of Information: See Text Interrogator: M.W.M.

Towards the end of Feb 45, troops training in FUESSEN were asked to volunteer for missions behind the Allied lines. It was not mentioned for what purpose these volunteers were wanted, and the name WEHRWOLF was never used. This story was told to source by a friend from whose unit three men volunteered. All the volunteers were very young, about 17 years old, and recently drafted from the HJ.

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IV. SCIENTIFIC RESEARCH

A. ORGANIZATION OF AIR MINISTRY RESEARCH INSTITUTIONS
(Source: KEIL, Helmut, see II A, above)
Rating: B-2 Date of Information: Mid-Mar 45 Interrogator: M.N.

Special research problems are presented by the OKH, OKM (Army and Navy High Commands), and RLM (Air Ministry) to the REICHSFORSCHUNGSRAT (REICH Research Board), the members of which are SPEER, Prof ESAU, and several others. The site of the REICH Research Board is BERLIN/GATOW, and its administrative offices are in BILIN/Sudetengau. From the Board the research projects are passed on to three main branches: the BHF (BEVOLLMAECHTIGTER FUER HOCHFREQUENZ-FORSCHUNG - Bureau of High Frequency Research), BERLIN/GATOW; BCI (BEVOLLMAECHTIGTER DER CHEMISCHEN INDUSTRIE - Bureau of the Chemical Industry), BERLIN; and WTA (WAFFENTECHNISCHES AMT - Armament Bureau), BERLIN. Source is familiar only with the BHF.

Prof ESAU, OBERSTABSING (Chief Staff Engineer) Dr KLEIN, OBERSTABSING Dr HUSCHKA, and REG AMTSMANN (Gov Official) REGLER are in the main BHF office. Assignments for research and experiments are given to separate scientific institutions and commercial firms. Sometimes firms or universities are assigned only component parts, so that the ultimate employment of their work is unknown to them. An incomplete list of institutions working on research for BHF follows:

i) University of PRAGUE, Prof Dr GUDDEN; works for the GAF; on self-steering AA projectiles; on compounds sensitive to radiations in general.

ii) University of HEIDELBERG, Prof Dr WESCH; same as University of PRAGUE, and also on anti-radar substance for submarines.

iii) LEITZ WETZLAR; optical instruments, self-steering AA projectile.

iv) RPF (REICHSPOST FORSCHUNGSANSTALT - Post Office Research Center), BERLIN; working on signals technique.

v) TELEFUNKEN, BERLIN.

vi) BLAUPUNKT, BERLIN.

vii) SIEMENS, BERLIN.

viii) RHODA & SCHWARZ, KEMPTEN/Allgaeu.

ix) NEUFELD & KUHNKE, KIEL.

x) SIGNALBAU, HUTH.

xi) SACHSENWERKE, NIEDERSEDLITZ.

xii) ASTONIA, BERLIN.

xiii) OSRAM, BERLIN.

xiv) LOEWE, A.G., BERLIN.

xv) OPTA-WERKE, BERLIN.

xvi) LUFTFAHRTFORSCHUNG (Air Research), HEIDELBERG; worked on self-steering projectile, substances sensitive to radiations.

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xvii) LUFTFAHRTFORSCHUNG, ADLERSHOF/BERLIN)
xviii) LUFTFAHRTFORSCHUNG, GATOW/BERLIN) The results of the experiments conducted at different institutes and laboratories were checked here; the finished models were tested here.

xix) LEUCHTSTOFF G.m.b.H., BERLIN-BAD LIEBENSTEIN-STEINBACH/Thuringia (Dr KAMM); Substances sensitive to ultra-violet and infra-red radiations.

xx) In HAKENFELDE, ESKERNFOERDE, on RUEGEN Island, near VIENNA, and near DRESDEN, were further experimental stations; the exact scope of their work is unknown to source.

xxi) MANKE, DANZIG - experiments on self-steering AA projectile; sensitive substances.

xxii) A large research center was located at PELZERHAKEN (spelling?). Anti-radar substances for submarines were being developed here.

xxiii) Prof WESCH's laboratories were moved to MESSELHAUSEN, under the code name "PERKEO".

B. CHEMISCHE UNTERSUCHUNGSSTELLE, (Chemical Research Post), WEHRKREIS III
(Source: BECKMANN, Dr Klaus, see V B, below)
Rating: B-2 Date of Information: Aug 44 Interrogator: H.W.F.

These laboratories were situated in the BEELITZ Sanatorium, approx 30 km SW of BERLIN, and were under supervision of Dr FRICKE, formerly Chief of the ZOLLTECHNISCHE PRUEFUNGSAMT, (Customs Inspection Service), BERLIN. He had two permanently assigned scientists and a few apprentices to assist him. Tests made there included water purity tests, food examinations, and examinations of stomach contents of poisoning cases.

C. RELEASE OF GERMAN SCIENTISTS FROM THE ARMY
(Source: BECKMANN, Dr Klaus, see III, above.)
Rating: B-2 Date of Information: See Text Interrogator: H.W.F.

Source states that approx 5,000 German scientists were discharged in summer 1944, because German scientific research had reached an all-time low. The discharge was effected through the PLANUNGSAMT DES REICHSFORSCHUNGSDIENSTES (Planning Office of The REICH Research Service), LINDAU, Harz, under a Prof OSENBERG. The scientists were selected according to their merits and had to be recommended by their former teachers. Source was recommended by Prof BLEYER of MUNICH University.

D. TECHNICAL SS AND POLICE ACADEMY, BERLIN
(Source: HUTT, Emil, see II E, above.)
Rating: B-2 Date of Information: April 45 Interrogator: J.M.

This academy is under HIMMLER's command and specializes in the development of weapons used for sabotage and partisan warfare. An experimental station which operated under the direction of the Academy was located at SCHILLERSTRASSE 85, BRUENN, Czechoslovakia. Approx 120 scientists were engaged on projects there. The administration offices are located in the GENDARMERIE KASERNE, BERLIN/SCHOENWALDE.
Some personalities at the Academy were:

CO, TECHNISCHE SS UND POLIZEI ADADEMIE	GENMAJ (Brig Gen) SCHMIDL
Chief Chemist	DR MAJ HENSEL
Dr of Physics	MAJ IHRINGER
Dr of Physics	HPTM (Capt) EITZ

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MFIU No 5, 27 April 45 — PW Intelligence Bulletin No 5/752
Seventh Army

V. MISCELLANY

A. JET-PROPELLED FIGHTER PILOTS' TESTS

Source

KEIL, Helmut (See II A, above)
Rating: B-2 Date of Information: Mid-Mar 45 Interrogator: M.N.

Source was told at the LUFTKRIEGSAKADEMIE, near BERLIN/KLADOW, that when the jet-propelled fighter planes were first put into operation, hundreds of pilots died because they could not stand the pressure and speed of the aircraft. It was therefore decided to give all jet-propelled fighter pilot candidates a thorough test before admitting them to the pilot courses. A screening station was set up in KLADOW, and, source claims, only a small percentage of the applicants passed the physical-fitness tests, including a pressure-chamber test.

B. STIMULANT BEVERAGE

1. Source

BECKMANN, Dr Klaus, a 29-year-old Doctor of Natural Science, who was discharged from the Army in 1944 in order to carry on the scientific research described in the text. Before leaving the Army he was HEERESAPOTHEKER (Army Pharmacist), with the rank o Capt. He claims to be anti-Nazi, and was cooperative during interrogation.
Rating: B-2 Date of Information: Late 44-Early 45 Interrogator: H.W.F.

2. Development

In Aug 44, MELCHERS A G, BERLIN, assigned to source the task of developing a harmless beverage to replace Coca-Cola as a stimulant. In collaboration with his instructor, a Prof BLEYER, and the BLAES & CO Chemical Works, MUNICH, source was able to produce an almost tasteless stimulant beverage. It consisted of 0.4 g of tetra calcium inosit (?) tetraphosphate, dissolved in one-half liter of water or soda water. This compound was derived from wheat bran.

3. Use

Source claims that it was originally intended to furnish the beverage to workers in the war industries, and that no military use was contemplated. However, early in 1945, BLAES & CO approached an Army General (OSCHMITZ (?)) for the purpose of obtaining some practical tests. The Army subsequently conducted such tests, and it was found that the beverage not only brought relief from mental and physical fatigue, but that it avoided MUSKELKATER (muscular soreness following unusual physical exertion). After this discovery had been made, it was planned to make use of the stimulant in the Armed Services. The proposed strength was to be one to two g of the chemical substance dissolved in one-half liter of water. Mass production was never achieved, according to source, and all papers concerning the tests were burned in the bombing of WUERZBURG, 16 Mar 45.

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MFIU No 5, 27 April 45 — PW Intelligence Bulletin No 5/752
Seventh Army

C. TAILPIECE

Source

BRUNNER, Hans (See III A, above)

GAULEITER Adolf WAGNER made a speech in MUNICH one day last summer, a typical Nazi fire-and-brimstone oration. He concluded the address with the following incautious words: "If we win the war, you can thank the Party; if we lose it, the people themselves will be to blame." This tactless remark so outraged some of his listeners that they set upon him after the meeting and gave him a severe beating. The resulting injuries led to his death shortly thereafter.

27 April 1945.

Mobile Field Interrogation Unit No 5

PAUL KUBALA, Maj, MI,
Commanding.

Distribution

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Mobile Field Interrogation Unit No 5
Seventh Army

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:Date: 8 Apr 45 :

PW INTELLIGENCE BULLETIN

No 5/750 — 8 April 1945

Address briefs and requests to Hq FID, MIS, APO 887.

CONTENTS

I. GENERAL OFFICERS AND GENERAL STAFF OFFICERS

A. GENLT (MAJ GEN) GRAF VON ORIOLA, CG XIII CORPS

B. GENLT (MAJ GEN) SENSFUSS, CG 212 VOLKSGRENADIER DIV

C. GENMAJ (BRIG GEN) GAEDE, CG 719 INF DIV

D. OBSLT (LT COL) MILTZOW, Ia 719 INF DIV

II. LAST DITCH DEFENSE

A. GERMAN NATIONAL REDOUBT

B. CHEMICAL WARFARE

C. BIOLOGICAL WARFARE

D. SS LUFTWAFFE

III. COUNTER INTELLIGENCE

A. FRONTAUFKLAERUNG UNITS AND PERSONALITIES

B. ACTIVITY OF ALLIED AGENTS - A CAPTURED DOCUMENT

IV. ARTILLERY

A. 73 OBSERVATION BATTERY

B. 1164 FORTRESS ARTILLERY REGT

PAGES 3, 5

SECRET

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THIS PAGE IS DECLASSIFIED IAW EO 13526

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S E C R E T

MFIU No 5, 8 April 45 PW Intelligence Bulletin No 5/750
Seventh Army

I. GENERAL OFFICERS AND GENERAL STAFF OFFICERS

A. GENLT (Maj Gen) Ralph Georg Edger Joachim Graf VON ORIOLA,
(Lobo Da Silveira Baron VON ALVITO), CG XIII Corps

Rating: B-2 Date of Information: See Text Interrogator: W.M.B.

1. Personal History

PW is a 50-year old Silesian from an old aristocratic military family, who has a pronounced non-Nazi attitude. Intelligent, witty, neither arrogant nor rank-conscious, he differs from most of the high-ranking German officers, although he has some of the mannerisms of a typical German officer. His knowledge of the world outside of Germany is limited, but his desire to see other people and countries is passionate. He has been a soldier for over 30 years and likes his profession - particularly in peacetime. Although he has expressed his disgust with Nazi leaders and leadership during the war, his knowledge of, and the role he played in politics is very small. He has given up all hope for a German victory since beg of the struggle with Russia, and considers the present phase of the war unnecessary and criminal. He is very much interested in the reconstruction of Germany, both politically and otherwise, and would like to be employed by the Allies in some capacity for that purpose.

Attention is called to the fact that Gen VON ORIOLA's rank is GENERALLEUTNANT (Maj Gen) and NOT GENERAL DER ARTILLERIE, (or even GENERAL DER INFANTERIE) as has been erroneously stated in at least two G-2 publications. He wrote this fact down personally and it is also shown in his SOLDBUCH and on his shoulder straps. GENLT VON ORIOLA expected his promotion to GENERAL DER ARTILLERIE end of Apr or beg May 1945.

9 Aug 1895	Born in HINSCHDORF (Silesia). His father was an active soldier (Lt Col) and his mother, FREIIN VON LUETTWITZ (grandmother Scottish, a CAMPBELL).
1914	With 6 Field Arty Regt in BRESLAU, as FAEHNRICH (Officer Candidate).
Nov 1914	Commissioned. Battery commander for 11 months.
1916	Bn Adjutant.
1916	Exec Officer (ORDONNANZOFFIZIER) on 225 Inf Div Staff.
1918	Exec Officer, in Ia, Army Group ALBRECHT.
Jun 1918	Promoted to O/LT (1st Lt).
Feb 1920	Adj, 6 Field Arty Regt.
1921	Battery Commander, 3 Field Arty Regt.
1922	Bn Adj, Mounted Arty Regt (REITENDE ABTEILUNG), POTSDAM.
1923	Regtl Adj, 3 Field Arty Regt, in FRANKFURT/ODER.
1926	Battery Commander.
Jun 1927	Promoted to HPTM (Capt) in 2 Field Arty Regt.
1928	With 4 Field Arty Regt, in HALBERSTADT.
Feb 1930	Battery Commander in 2 Field Arty Regt, in STETTIN.
1934	Adj to Arty Commander, BERLIN.
Sep 1934	Bn Commander, 18 Field Arty Regt (newly formed in GLOGAU and LIEGNITZ).
1 Oct 1934	Promoted to MAJ.
1 Aug 1937	Promoted to OBSTLT (Lt Col).
1 Sep 1939	CO, 252 Arty Regt. With this Regt in Polish and French campaigns.
1 Jun 1940	Promoted to OBST (Col).
Feb 1942	Temporary CO (sic), VII Corps in Russia.
Nov 1942	Temporary CO, 377 Inf Div, during CG's illness.
Dec 1942	Div Commanders' Training Course in BERLIN.
Feb 1943	CO, 72 Inf Div.

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1 May 1943 Promoted to GENMAJ (Brig Gen), CG, 299 Inf Div, in Russia.
1 Nov 1943 Promoted to GENLT (Maj Gen). Still with the same div.
Dec 1944 Commanding Generals' Course in HIRSCHBERG.
Feb 1945 CG, XIII Corps.
31 Mar 1945 Captured in ALTHAUSEN, vic BAD MERGENTHEIM.

2. Capture

PW gives the following account of his capture: "On the morning of 31 Mar 45, I made a trip to the right flank of my Corps (XIII Corps) to assure myself personnally of the development of a new defensive front. For this purpose a new battle group had been provided, of which I knew insufficient details regarding its strength and armament. O/LT (1st Lt) SCHLEGDENTAL, my usual aide, accompanied me. In STUPPACH an officer reported to me, stating that I would meet GENMAJ (Brig Gen) KOLB, CG, 9 VG Div, in whose sector the new battle group was to be committed, in the next village, ALTHAUSEN. While I was discussing the situation and the possibilities of commitment with GENMAJ KOLB in a house, an officer appeared and reported that tanks were standing outside the gates of the village. Simultaneously strong MG and submachine gun fire set in." The general then described his attempts to escape which proved unsuccessful, as all roads of escape were cut off. His aide was shot, and the General surrendered to thirty or forty American troops who had surrounded him. The General adds cryptically: "A fire fight with my pistol against numerous sub-machine guns at a range of 20 m was a hopeless proposition".

3. Assignment To XIII Corps

After the course in HIRSCHBERG, source went to BERLIN to receive his new assignment from the FUEHRER Reserve. While awaiting assignment, source was billetted in the PALACE Hotel in POTSDAM. Three other generals, all GENLTS (Maj Gens), FLOERCKE, GAUSE and GREINER, were also awaiting assignment. Source was the first to be assigned, and he does not know what became of the others.

Source took command of XIII Corps on 23 Feb 45. His predecessor GENLT (Maj Gen) FELBER took over command of 7 Army. FELBER only lasted four days; he was relieved of command and sent home. Source suggests several reasons for his dismissal. The most logical, according to source, is the failure of 7 Army to hold up the American attack. Another reason might have been the fact that FELBER was on bad terms with GENERAL FELDMARSCHALL MODEL, as FELBER himself indicated to source before he took over command of 7 Army. FELBER also mentioned that he was not liked at FUEHRERHAUPTQUARTIER. FELBER told source that the Americans thought of him as a fervent Nazi, and that they called him the "Retreating General". Source's own impression of FELBER is that he is not a Nazi, but a decent sort, a man who is always calm and collected, even under terrific pressure.

4. Divs and Div Commandors in XIII Corps

On day of capture, the following divs belonged to XIII Corps:

9 VG Div CG, GENMAJ KOLB
352 Inf Div CG, GENMAJ SCHMIDT
559 VG Div CG, GENMAJ VON MUEHLEN

5. Defensive Plans of XIII Corps

XIII Corps did not have any precise plans as to where it was going to form a new line. The decision was left open as the direction of the American drive was not yet clear. It was presumed, however, that the drive would head towards

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S E C R E T

MFIU No 5, 8 April 45 — PW Intelligence Bulletin No 5/750
Seventh Army

WUERZBURG. In that eventuality XIII Corps had planned a new line running NORTH and EAST in the KOCHER and JAGST River territory. The projected CP was to be in KOCHERSTEINFELD (S-2172). Source claims to have no knowledge of the information as mentioned in G-2 Report, No 230, Hq Seventh Army, 2 Apr 45, which reported that a captured document showed XIII Corps to be in control of 17 SS PG Div, 16, 19, 246 and 553 VG Divs, nor does he know about a Corps zone bounded on the NORTH by a line running EAST through HARDHEIM (N-2153) and on the SOUTH by a line running NW-SE through SCHOENBRUNN (R-8791).

6. XIII Corps Personalities

C of S, formerly C of S of military mission in BRATISLAVA.		OBSTLT (Lt Col) UECHTRITZ
I a		MAJ RACKEL
I b		MAJ AHLBAEUMER
I c	(said to be anti-Nazi; his wife lives in BADEN-BADEN.)	RITTMEISTER (Capt) VON SCHROELER
O 1	Asst to I a	HPTM (Capt) VON LANGENDORF
O 3	Asst to I c	O/LT (1st Lt) VON ALBERTI

7. German Army Reserves

Source claims that there are apparently considerable reserves within Germany. While travelling from Silesia through BERLIN to the WEST Front on 21 Feb 45, he observed large numbers of soldiers in the cities, among them a high percentage of GAF personnel.

Source blames the OKH for not being able to organize and train these soldiers fast enough, but at the same time realizes the difficulties confronting the OKH. PW feels that even if they were organized into fighting units, they would lack the fighting spirit and pride which was formerly existent in old regts. Reserves will appear mostly as battle groups on the front.

8. Replacement of Artillery Equipment

Source is amazed that replacements for lost or worn out arty pieces are still forthcoming.

Arty units in XIII Corps had heavy losses because of air attacks or lack of transportation or gasoline during the retreat. Air attacks while retreating through mountainous territory raised havoc with the arty, because vehicles could not get under cover or climb the hills. All movements had to be made at night.

Source believes that following the loss of the RUHR and Silesian industrial territory, arty pieces will no longer be replaceable.

9. Chemical Warfare

Source believes that it is out of the question for Germany to initiate chemical warfare. He has neither seen nor heard of any recent directives or orders

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relating to CW. During the course for commanding generals in HIRSCHBERG, no mention was made of the subject. Source denounced the employment of CW by any nation as a crime of the first order.

10. National Redoubt

Source neither has any knowledge of, nor does he believe in the establishment of a National Redoubt. He admits, however, that some Nazi leaders in conjunction with fanatical SS troops might attempt a last stand in order to die like heroes.

11. Gen VON SEYDLITZ

Source feels that SEYDLITZ is trying to act in the best interests of Germany, and to avoid further bloodshed he is to be exonerated of any guilt. The impression in German Army circles is that SEYDLITZ is acting under hypnosis, and cannot be held responsible for his actions. Source disagrees with this theory.

While source was commanding 299 Inf Div on the Eastern Front, and was under strong pressure by Russian forces at GOMEL, he received a letter from VON SEYDLITZ, asking him to surrender with his div in order to avoid annihilation of his troops. The letter was received on 22 Dec 43, but it had been written four weeks previously, at which time the situation had been more desperate than it was upon the receipt of the letter. Source was in fact able to extricate his div from this situation in fairly good shape. Source declares that if it would have been at all possible to surrender an entire div, he would have followed SEYDLITZ' advice. Source considers it easier for cos, or even bns to surrender, than for a whole div to give itself up.

12. Field Marshal MODEL

Source, who knows MODEL personally, describes him as being a very rough and ruthless person, who believes that the end justifies the means. He considers him to be very capable, a good organizer and an extremely hard worker. He is very much liked and trusted by HITLER. If MODEL desires anything, he can get it, while others fail. He is feared by everyone under him, including subordinate general officers to whom he shows neither consideration nor courtesy. Source, who claims that he once yelled at MODEL, which is supposed to be the only way of handling him, claims that MODEL was responsible for his transfer from the Eastern to the Western front.

MODEL used to put in an appearance every time things looked bad in some sector. He was nicknamed and is well known as the "KATASTROPHEN GENERAL".

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S E C R E T

MFIU No 5, 8 April 45 — PW Intelligence Bulletin No 5/750
Seventh Army

B. GENLT (Maj-Gen) Franz SENSFUSS, CG 212 VG Div. Additional Notes.
(Of MFIU No 5, PW Intelligence Bulletin No 5/749)
Rating: C-3 Date of Information: See Text Interrogator: A.Z.

1. WAFFEN SS

Source openly expressed his dislike of the WAFFEN SS, claiming that the fighting qualities of its troops had been greatly exaggerated. Most officers who transferred to the WAFFEN SS did so because they were either opportunists or incompetents. As an example, the Gen cited the case of an unnamed OBSTLT (Lt Col) who was his assistant when he was CO 690 Eng Regtl Staff, and whom he had to dismiss for incompetence and inability to carry out his duties. The OBSTLT is now a GENERAL DER WAFFEN SS.

2. ARDENNES Offensive

In Dec 44, 212 VG Div broke through Allied lines near ECHTERNACH, Luxembourg, and source stated that it would have reached the city of LUXEMBOURG, its objective if the divs on each flank had not been stopped. For a number of days 212 Div had to withstand severe attacks on both flanks, and was finally forced to withdraw.

Source attributes the failure of the ARDENNES offensive to lack of available fuel. Field Marshal VON RUNSTEDT had expected to capture intact a sufficient number of POL dumps to keep his tanks moving, and when this tactic did not succeed, he was compelled to rush supplies from the rear to tank units which had been immobilized for two days. In the meantime, however, improved weather conditions and a higher ceiling permitted resumption of Allied air activity, and all the gasoline convoys were destroyed.

3. German General Staff

Source was too old to enter the KRIEGSAKADEMIE, but as a special favor he was permitted to participate in various educational trips and tours of inspection which were arranged for members of the General Staff.

C. GENMAJ (Brig Gen) Heinrich GAEDE, CG 719 Inf Div
Rating: C-3 Date of Information: See Text Interrogator: A.Z.

1. Personal History

PW is a 47-year old General Staff Officer, who realizes that Germany is in desperate straits, but still hopes for a miracle to save his country. At first he refused to open his lips or respond in any way to questioning, but he later admitted that he feared reprisals against his family. He was amazed that Allied troops did not consider him a hero for having successfully evaded capture during eight days of hiding behind Allied lines. The lack of chivalry displayed by American soldiers was incomprehensible to his Prussian mentality.

PW is highly intelligent, and he weighs every word carefully. He is also exceedingly rank conscious and appears to be a very lonely man. He has no drawing room manners, despite the time spent in diplomatic life.

1916	Drafted into 45 Field Arty Regt as FAHNENJUNKER (Officer Candidate).
1919	Demobilized; managed his private estate.
1923	Recalled to service and assigned to 2 Arty Regt.
1924	INSPEKTIONS OFFIZIER (Inspection Officer) at Arty School, in WUENSDORF. Later, Physical Training Officer.
1931	Staff Officer with 5 Inf Div in STUTTGART.
1934	Attended General Staff Officers' School, BERLIN.
1937	Promoted to Major.

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1939	Arty adviser to OKH.
Dec 1939	Promoted to OBSTLT (Lt Col); served as Ia (G-3) with 225 Inf Div in France.
1941	Ia with 110 Inf Div in Russia; later C of S of an unnamed Army Corps.
Jan 1942	Illness.
Jun 1942	Sent to Bulgaria as chief of DEUTSCHER AUSBILDUNGSSTAB BEI DER KGL. BULG. HEERESLEITUNG (German Training Staff, attached to Royal Bulgarian Army Staff).
1 Dec 1943	Promoted to GENMAJ (Brig Gen).
Sept 1944	Attended Div Commanders' Course in HIRSCHBERG, Silesia.
Dec 1944	CG 719 Inf Div, succeeding GENMAJ SCHWALBE
30 Mar 1945	Captured when 719 Inf Div, which had been detailed to hold the SAAR-LAUTERN - RODERN sector of the SIEGFRIED line, was finally destroyed in the great Allied offensive. Gen GAEDE, together with his Ia (OBSTLT Herman MILTZOW, General Staff) and two orderlies, tried to make their way back to the RHINE, but were detected by a detail of civilian workers while hiding in a bunker near BERGZABERN.

2. German National Redoubt

PW claims to have no knowledge of any measures being taken to transform the German and Austrian Alps into a fortress. He does not consider guerilla warfare likely because, in his opinion, it is unsuited to the mentality of the German people. He feels that the primary concern of Germans living in rural districts will be the sowing of fields and the cultivation of crops to prevent starvation the following winter.

3. German Provisional Government in MOSCOW

Source showed signs of great emotional stress when this subject was discussed. He states that Gen VON SEYDLITZ was his adjutant for a time, and that he knows him too well to believe that he is acting with full consciousness, or in full possession of all his mental faculties. According to source the Russians have made a very thorough study of the various narcotic and toxic properties of certain plants (PFLANZENGIFTE), and have succeeded in developing drugs which reduce the willpower. He believes that VON SEYDLITZ is acting under such a narcotic influence, as is also VON PAULUS. He knows that, before the surrender of STALINGRAD, VON PAULUS sent his Knight's Cross to his wife, a Rumanian Princess. Nevertheless, in all pictures released by the Russians, he is wearing the Knight's Cross, a fact which PW takes as additional proof that he is not acting entirely on his own volition. Source is firmly convinced that the Provisional Government is merely a Russian propaganda trick, and that it will never be moved to Germany.

4. KRIEGSAKADEMIE (German General Staff School)

PW is very proud of his position as a General Staff Officer. He emphasizes the fact that officers who attend the KRIEGSAKADEMIE during wartime do not have the qualifications which were possessed by pre-war General Staff Candidates, and he considers the nine-months' wartime course insufficient training for General Staff Officers, despite the requirement of two years' preparatory work. PW is aware that the General Staff will be dissolved after an Allied victory, but he declares proudly that a General Staff Officer will always remain an outstanding personage, whether he be behind a plough or at a work bench.

5. Relations between German General Staff and the Nazi Party

PW refuses to give his personal opinion on this question, but he declares that he is closely bound to the FUEHRER by a solemn oath of allegiance, from which

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HITLER's death alone would release him. Should HITLER die, he would hesitate to take a similar oath binding himself to HIMMLER or any other Party leader. Despite his carefully chosen words, he appears to have some sympathy for those Generals who made an attempt on HITLER's life in June 44, since he states that they were not motivated by personal interests.

6. Secret Weapons

Source does not believe that any secret weapon can now turn the tide of war in Germany's favor, but it is interesting to note his reactions to questions concerning certain rumored weapons:

i) Uranium, "Our research centers are working on it, but we haven't got that far". ("SO WEIT SIND WIR NOCH NICHT").
ii) Freezing Bombs, " I don't believe in fairy tales".
iii) Death Ray, "We have achieved some results, but it is of no practical value".
iv) Liquid Air Shells, "I have heard of them, but I don't know how effective they are".

As an Arty specialist, he still believes that the normal gun cannot be replaced by rocket shells, even in the NEXT war.

7. Chemical Warfare

PW claims that Germany will never initiate Chemical Warfare, stating emphatically that the German High Command is as familiar with locations of Allied CW dumps in UK as the Allies are with dumps in Germany. Allied dumps have never been bombed because of German fear that such bombing might be used as a pretext for initiating Chemical Warfare.

D. OBSTLT (Lt Col) Hermann MILTZOW, German General Staff Corps
Rating: C-3 Date of Information: See Text Interrogators: W.H.V. and H.W.F.

Personal History

PW is a typical professional soldier, Prussian in manner, and strongly pro-Nazi in sentiments. He considers it a soldier's duty to fight on until the final downfall of Germany, and he regrets that he can take no further part in the war. He was extremely close-mouthed on all matters of a military nature, and only a few details of his career came to light during interrogation.

4 May 1910	Born in LEIPZIG.
Prior to 1930	Lived in HAMBURG.
1930	Entered the 100,000-man Army as Officer Candidate.
1933	Commissioned.
1938	Participated in the march into Austria.
1939-1940	Co Commander during French campaign, but apparently did not take active part in the fighting, as he was stationed near RASTATT.
Winter 1940	Attended the three months' training course at the KRIEGSAKADEMIE.
Jan 41-Aug 41	Ib, 306 Inf Div.
Dec 1941	Awarded KRIEGSVERDIENSTKREUZ, 1 u.2 KL. MIT SCHWERTERN (War Service of Merit Cross, 1st and 2nd Class, with Swords).
Aug 41-Jan 44	Ib, 239 Inf Div and 294 Inf Div, in Russia.
1 Aug 1942	Became General Staff Officer (He had been selected for the General Staff prior to the outbreak of hostilities, but the course was cancelled when war broke out. After his training at the KRIEGSAKADEMIE in 1940, he was placed on trial for an 18 month period).
1 Nov 1943	Promoted to OBSTLT (Lt Col).

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Jan 44-Oct 44 Ia, 344 Inf Div, in France.
Oct 44 Ia, 719 Inf Div.
30 Mar 1945 Captured, together with GENMAJ GAEDE, near BERGZABERN.

II. LAST DITCH DEFENSE

Sources

1. KLEIN, Willi, a 35-year old truck driver from HOMBURG, who deserted from the German Army 20 Jul 44. During period covered by information in text, source was stationed in BERCHTESGADEN, in the JAEGERKASERNE, which he describes. He is unintelligent but fairly cooperative.
Rating: C-3 Date of Information: See Text Interrogator: W.H.V.

2. WIENINGER, Max, 2nd Lt, 837 Eng Bn, a 30-year old, wealthy, non-Nazi, from TEISENDORF, Bavaria, who is reluctant to give information, fearing that it might endanger his wife and children.
Rating: B-2 Date of Information: Feb 45 Interrogator: H.W.F.

3. Dr OEFTERING, OBERREGIERUNGSRAT, Finance Ministry, BERLIN, arrested in LANDAU, 26 Mar 45.
Rating: B-3 Date of Information: Mar 45 Interrogator: W.H.V.

4. KIENDL, Robert, 2nd Lt, Hq, 2 Bn, 6 AA Regt, a 25-year old professional soldier of average intelligence, who answered questions willingly, but did not volunteer information.
Rating: C-3 Date of Information: Mar 45 Interrogator: R.W.

5. Ten medical officer PW. The two bacteriology specialists are Dr KIEFER, director of the military hospital at SAARBRUECKEN, and Dr ERBSEN, a cancer research scientist of international reputation, who has exchanged medical data with many American and British scientists.
Date of Information: Mar 45 Interrogator: W.M.B.

A. German National Redoubt Area

1. Order of Battle a: B-3, Feb 45, PW WIENINGER. b: C-3, Jul 44, PW KLEIN.

a) According to a letter source received from his wife, from TEISENDORF, Bavaria, there were large numbers of SS troops, apparently living in trailers in the woods at ACHTHAL, GSGS 4416/X-7/7727, near TEISENDORF.

b) Among troops stationed at BERCHTSSGADEN, Jul 44, were:

i) Elements of Pz Gren Div "GROSSDEUTSCHLAND".
ii) 3 GEN KP GEB ERS BTL 100 (3 Convalescent Co, 100 Mtn Repl Bn).
iii) An unspecified unit concerned with laying smoke screens over the town when Allied planes approached.

2. Defenses

a) Underground Shelter C-3, Jul 44, PW KLEIN

At GSGS 4416/Y-7/9307 there is a large underground shelter which was under construction in Jun 44. The shelter was blasted into the hillside on top of which is located the chancellory.

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b) AA Positions C-3, Jul 44, PW KLEIN

At GSGS 4416/Y-7/9097 on the peak of the WATZMANN glacier in front of a well known tourist hotel, there are a number of AA guns of unspecified cal, facing in the direction of BERCHTESGADEN.

c) Trenches B-3, PW WIENINGER

In Feb 45, trenches were being dug in BERCHTESGADEN.

3. Locations

a) Airfield C-3, July 44, PW KLEIN

There is an airfield at AINRING, GSGS 4416/X-7/8926 approx 5 km NW of SALZBURG, which is used by transport planes carrying visitors to BERCHTESGADEN.

b) Barracks C-3, July 44, PW KLEIN

i) At approx GSGS 4416/Y-7/9305, between two roads leading from BERCHTESGADEN via STRUB to BAD REICHENHALL, there is a large barracks known as the JAEGER-KASERNE. It consists of five large blocks of barracks buildings, each three stories high and having 15-20 rooms per floor, together with a number of smaller buildings, including garages and a gasoline filling station.

ii) At GSGS 4416/Y-7/925055, EAST of the road from STRUB to BAD REICHENHALL, there are a number of wooden barracks.

c) Chemical Factory C-3, Jan 45, PW KLEIN

In Dec 44, PW heard from his brother-in-law, who had been employed at a chemical factory in the vic of BRESLAU, that this factory was being moved to Bavaria. In Jan 45, he received a postcard from TRAUENSTEIN, GSGS 4416/X-7/5630, near CHIEM SEE, where his brother-in-law was billetted.

d) REICHSKANZLEI B-3, Mar 45, PW Dr OEFTERING

On 10 Mar 45 all that remained in BERLIN of the Chancellery was a liason staff, all other departments having moved to BERCHTESGADEN several months before.

4. Attitude of Local Population B-3, Feb 45, PW WIENINGER

Source claims that 90-95% of the population in his part of Bavaria are anti-Nazi, and that the land owning classes in particular would welcome an American occupation. Prior to 1933 the BAYERISCHE VOLKSPARTEI (Bavarian People's Party) was the leading political group in the area.

A Nazi personality hated by the local inhabitants is STREDELE, KREISLEITER of BERCHTESGADEN, a Reserve Officer approx 80 years old.

B. Chemical Warfare

1. Production of New Gas C-3, Dec 44, PW KLEIN

PW's brother-in-law reported that while the factory mentioned in B,3,c (above) was still located in Silesia, a new gas was being produced. It is supposed to be impossible to detect, either by smell or by appearance. Several factory workers collapsed and died immediately without showing any outward effects. A few breaths

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of the gas were sufficient to cause the death of these workers. PW has no knowledge as to the means by which the Germans might try to spread the gas, but quotes his brother-in-law as saying: " If they can fill V-1 or V-2 with this gas, then whole cities can be destroyed". No other details are known to source.

2. CW Precautionary Measures in 2 Bn, 6 AA Regt C-3, Mar 45, PW KIENDL

Source, who was the unit WAFFEN UND GERAET (Ordnance) and GABO (CW) officer, claims that no extraordinary measures have been taken in his unit.

The bn had for a long time included the following personnel, who were trained for gas detection and decontamination:

Unit	Gas NCO's	Gas EM	Total NCO's	EM
Bn Hq	1	6	1	6
3 Hy Btrys	ea 1	ea 6	3	18
2 Lt Btrys	ea 4	ea 12	8	24
		Total for Bn	12	48

Protective clothing was issued to all gas detection and decontamination personnel, heavy protective clothing for Bn Hq and light protective clothing for the gas detection and decontamination personnel in the other batteries. However, no additional clothing or equipment have been issued to the bn during the last few months.

C. Biological Warfare Mar 45, 10 Medical Officer PW (See Sources 5, above)

All PW, most of whom have had some experience with bacteriology, denied having any connection with biological warfare and claimed never to have heard of it. All expressed doubts concerning the possibility of its employment.

Two PW, both eminent men in their profession, and both widely trained in bacteriology, stated emphatically that it was a scientific impossibility for germs to be spread effectively by means of bombs or artillery shells. If the cultures did not die upon explosion of the missiles, they would only live a few seconds thereafter unless they happened to come in contact with a susceptible field.

One of these officers states that nothing fundamental has been learned about bacteria since 1911. Artificial transmission of diseases on a large scale would be difficult. Pestilence might possibly be spread on such a scale through such media as rats, chickens, and rabbits. Diphtheria and cholera could be spread by polluting water.

D. SS LUFTWAFFE C-3, Sept 44, PW KIENDL

While source was in hospital in the Bohemian and Moravian Protectorate, he heard that a separate SS LUFTWAFFE had been formed. At that time it was reported to consist of one squadron, which was stationed in the vic of PRAGUE. Present location of the squadron is unknown. The SS LUFTWAFFE was reported to be used for interior security.

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S E C R E T

MFIU No 5, 8 April 45 PW Intelligence Bulletin No 5/750
Seventh Army

III. COUNTER INTELLIGENCE

A. FRONTAUFKLAERUNG Units and Personalities
(Of GERMAN INTELLIGENCE SERVICES, SHAEF, 4 October 1944)

Source

BOENDEL, Max, O/GEFR (Cpl), FRONTAUFKLAERUNGSTRUPP 357, a 38-year old salesman and business manager from SAARLAUTERN who lived in Spain and Paris. Source is intelligent and was very cooperative during interrogation.
Rating: C-3 Date of Information: Mar 45 Interrogator: R.W.

1. Organization

The chain of command of the reorganized ABWEHR, as known to PW, is as follows:

RSHA - MILITAERISCHES AMT
|
LEITSTELLEN FUER FRONTAUFKLAERUNG (former ABWEHR LEITSTELLEN)
|
FRONTAUFKLAERUNGSKOMMANDOS (former ABWEHRSTELLEN)
|
FRONTAUFKLAERUNGSTRUPPS (smallest unit)

The LEITSTELLEN are numbered I, II, and III, according to their functions; PW knows about a WEST branch, and assumes that an EAST branch is also in existence.

The FRONTAUFKLAERUNGSKOMMANDOS and FRONTAUFKLAERUNGSTRUPPS are assigned an arabic numeral in addition to their unit number, according to their type of work. Thus a FRONTAUFKLAERUNGSKOMMANDO or FRONTAUFKLAERUNGSTRUPP subordinate to LEITSTELLE I, II, or III will be numbered, for example, 128, 228, and 328, respectively.

The LEITSTELLEN receive instructions directly from the RSHA-MILITAERISCHES AMT, but they work very closely with army groups; the KOMMANDOS, as far as PW knows, are completely subordinate to the LEITSTELLEN; but the TRUPPS, while under the command of the KOMMANDOS as far as their specialized work is concerned, are subordinate to a purely military unit (sometimes as low as div) for administration and operating procedure.

2. FRONTAUFKLAERUNGSTRUPP 357

a) Organization and Employment

The Unit, composed of two officers and 14 EM (of whom two were FW (S/Sgts) and two UFFZ (Sgts)), was attached to Headquarters, AOK I, and was supposed to combat Allied espionage in close cooperation with this Hq. However, most of the intelligence, espionage, and counter-intelligence work was done by the SD. When the Unit asked for captured Allied agents for interrogation purposes, it was advised "to capture its own prisoners". All agents captured by units under AOK I were turned over to SD in accordance with a directive from SD Hq. The work of the Unit was therefore limited to numerous interviews

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by the CO with civilians, believed by source to be German agents.

The TRUPP was subordinate to FRONTAUFKLAERUNGSKOMMANDO 313 which, in turn, was under the command of LEITSTELLE III WEST FUER FRONTAUFKLAERUNG, located, source believes, in RIEDELBACH in the TAUNUS Mountains.

TRUPP 357 was first committed in Oct 44 and has been with AOK I since that time.

b) Personalities

CO	FRONTAUFKLAERUNGSKOMMANDO 313	OBSTLT DERNBACH
CO	FRONTAUFKLAERUNGSTRUPP 357	HPTM GRIESINGER (wounded, killed, or deserted 20 Mar 45.)
Former CO	" " " " " "	O/LT NIEBUR, relieved Jan 45.
Exec O	" " " " " "	O/LT BUBINGER, (escaped across the RHINE o/a 20 Mar with all papers and remaining personnel.)

3. Personalities In The ABWEHR

ROHLEDER	OBST	Chief of Section III	Source never saw him personally. Reportedly very tall, rather old, grey hair.
RUDOLPH	OBST	ABTEILUNGSLEITER WEST	Formerly Hq in PARIS.
REILE	OBSTLT	Chief of Sec III, WEST	Approx 1.80 m tall, heavy build, oval face, grey eyes. Very intelligent. Without feelings. Lives at TRIER. Not known whether Nazi or not.
SCHAEFER	MAJ	Right Hand Man to REILE	1.71 to 1.73 m tall, medium build, oval, fleshy face, mustache, slight hook nose, greying hair. About 50 years old. Wears glasses when working. Nazi not by conviction but for personal advancement.
FELLMANN	MAJ	In ABTEILUNG WEST	Junker type, approx 1.76 m tall, anti-Nazi.
LEYERER	HPTM	Personnel O in ABT WEST	Approx 55 years old. Approx 1.68 m tall, grey hair, slightly bald, thin.
KAYSER	HPTM	In ABT WEST	Approx 50 years old, small appearance, oval head. 100% anti-Nazi.
MOELLER	HPTM		Approx 1.72 m tall. Dark complexion. Very neat. Anti-Nazi. Speaks English well.
SERVAES	OBST	Chief of AST BRUSSELS	Old man, over 60. Grey-white hair. Perfect example of the higher German Officer, well preserved.

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HINTERMAYER	OBST	Chief of Sec III, BRUSSELS	From VIENNA(?). Well liked. Approx 59 years old, 1.73 m tall, slender, almost bald, brown hair, bad teeth. Walks slightly stooped.
MOEHRING	MAJ	Chief of Sec III F	Very loud voice. Approx 1.69 to 1.71 m tall. Between 55 and 58 years old, oval to round face, almost bald, grey hair. Wears glasses, lazy. Feels self-important. Country judge in civilian life. 100% Nazi. Always correct towards PW.
SCHELLEWALD, Dr	HPTM		Approx 50 years old. Approx 1.75 m tall, slender. Sympathetic appearance. Greying hair. Anti-Nazi.
PIPE, Dr	HPTM	GHENT (?)	Approx 55 years old. 1.67 to 1.69 m tall. Alcoholic face, red nose, bad teeth, brown hair. Anti-Nazi, was warned several times on account of anti-Nazi statements.
NOELLE	HPTM		Approx 1.72 m tall. In his late 50's. Likes to drink. Supposed to wear a monocle when in company. Anti-Nazi, was put into the FUEHRERRESERVE and later sent home.
GROSSE, Dr	HPTM		Approx 1.70 m tall. 45 years old, bald, thin lips, grey-blue eyes, a scar on face near mouth. Oval face. Against any kind of militarism. Wears uniform only when specifically ordered. Anti-Nazi. Dr Chem Eng in civilian life, but operated a news agency mainly for economic news. He had connections everywhere and was very well oriented on all matters. Likes to travel.
FISCHER	HPTFW		Approx 1.70 m tall. Approx 50 years old. Brutal face, very bad teeth. Fanatical Nazi. Rose very rapidly from O/GEFR to O/FW.
GRIESINGER	HPTM	CO FRONTAUFKLAERUNGSTRUPP 357	About 50 years old, approx 1.70 m tall, bald, anti-Nazi. Did not return from a trip to BAD DUERKHEIM on 20 Mar 45.

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BUBINGER	O/LT	Executive O TRUPP 357	About 48 years old, approx 1.74m tall, bald, scars on face. Fanatical Nazi.
KIEFER	STUBAF	CO BdS (BEAUFTRAGTER DER SICHERHEITSPOLIZEI) PARIS	
GUTGESELL	USTUF		
NOSSEK			
KNOCHEN, Dr			
NIEBUHR	O/LT	Former CO of TRUPP 357	Home in BAD KREUZNACH
DERNBACH	OBSTLT	CO FRONTAUFKLAERUNGSKOMMANDO	

B. Activity of Allied Agents - A Captured Document

The document below which is being reproduced for its general interest was captured by an American soldier in KAISERSLAUTERN and passed through the hands of G-2 Documents Section, Seventh Army.

Geheim
Auszugsweise Abschrift

Generalkommando LXXXV. A.K. K.Gef.Std., den 12.3.45
Abt. Ic Nr.383/45 geh.

Betr.: Verstärkter Einsatz von Feindagenten.

Im Bereich der Heeresgruppe, insbesondere im Raum ostwärts des Rheins, erfolgte in den letzten Tagen ein starker Einsatz von Feindagenten. Bisherige Festnahmen ergaben, dass diese Agenten insbesondere Sabotageaufträge hatten.

Aus diesem Grunde ist eine verschärfte Bewachung aller Unterkünfte, Munitionslager, Verpflegungslager usw. durchzuführen. Die Truppe ist eingehend darüber zu belehren, dass bei festgenommenen verdächtigen Personen wie folgt zu verfahren ist:

1.) Eingehende körperliche Durchsuchung auf Waffen, Ausweise und mitgeführtes Gepäck sofort sicherstellen.

2.) Festgenommene sofort der nächst erreichbaren Dienststelle oder dem nächsten Kommando des Chefs der Sicherheitspolizei und des SD (Gestapo) mit sichergestellten Effekten, entweder unmittelbar oder über die Feldgendarmerie, übergeben. Eigene Vernehmungen haben zu unterbleiben.

3.) Gepäck nicht durchsuchen, da Explosionsgefahr. An Funkgeräten keine Veränderung vornehmen.

4.) Fallschirmagenten nach Möglichkeit lebend in die Hände der zuständigen Stellen des Chefs der Sicherheitpolizei und des SD zu bringen. Ernstlich verwundeten Agenten ist sofort ärztliche Hilfe zu verschaffen.

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S E C R E T

MFIU No 5, 8 April 45 — PW Intelligence Bulletin No 5/750
Seventh Army

5.) Verdächtige Personen, auch dann, wenn sie ausgezeichnete Ausweispapiere haben, den sicherheitspolizeilichen Stellen übergeben. Ausweispapiere werden vom Gegner so ausgezeichnet gefälscht, dass nur geschulte Fachleute der Sicherheitspolizei die Fälschung erkennen können.

Für das Generalkommando
Der Chef des Generalstabes
gez. Unterschrift

(no signature)

Grenadier-Regiment 743
- Ia Nr. 463/45 geh. -

Rgts. Gef. Stand, den
16. 3. 45

Bezug: 719.J.D. Ic Nr.396/45 g.

Vorstehende Abschrift zur Kenntnisnahme und Beachtung übersandt. Für Div. Bereich in Frage kommende Stellen:
Sicherheitspolizei Wiesbach und Schmelz
G.F.P. Eppelborn
Feldgendarmerie Tiweiler und Hoxberg.

A.B.
gez. R i t t e r

F.d.R.
(signed)

Uffz.

(TRANSLATION)

S E C R E T

Extract Copy

LXXXV Corps Headquarters
G-2 Office No 395/45 SECRET

In the Field, 12 Mar 45

Subject: Intensified Activity of Enemy Agents.

Strong enemy agent activity took place in the last days within Army Group area, especially in the region EAST of the RHINE. Arrests made so far show that these agents were given sabotage missions in particular.

Therefore all installations, ammunition depots, ration dumps, etc, are to be more closely guarded. Thorough instruction should be given to all men that the following procedure is to carried out in case of apprehension of suspects.

1.) Immediately assure a thorough search for weapons, documents, and baggage carried.

2.) Immediately hand over the arrested persons to the nearest post or office of the SICHERHEIT POLIZEI and SD (GESTAPO), either directly or through the FELDGENDARMERIE, together with their belongings. On-the-spot interrogations are not to be conducted.

3.) Baggage is not to be searched, because of the danger of explosives. No alterations are to be made to radio equipment.

15

S E C R E T

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4.) Parachute agents are to be brought alive, if possible, to the posts of the SICHERHEITSPOLIZEI or the SD. Seriously wounded agents are to be given medical assistance immediately.

5.) Suspected persons, even when in possession of excellent identification papers, are to be brought to posts of the SICHERHEITSPOLIZEI. Identification papers are being forged by the enemy in such an excellent manner that only schooled police experts are in a position to recognize them.

For the Commanding General
Chief of Staff
/s/ Signature
(no Signature)

Grenadier Regiment 743
-G-3 No 463/45 SECRET

Regtl GP, 16 Mar 45

Reference: 719 J.D. G-2 No 396/45 g.

Above copy referred for information and compliance. Posts available in the Div area:
SICHERHEITSPOLIZEI MISSBACH and SCHMELZ
G.F.P. EPPELBORN
FELDGENDARMERIE EIFELER and HOMBERG.

A.B.
/s/ R I T T E R

F.d.R.
(Signature)
Uffz

IV. ARTILLERY

A. 73 Observation Battery

(This report should be read in conjunction with MU 500, OSDIC, Report Ref No693)

Source

STUETZEL, Heinrich, Pvt, 73 Mtn Obsn Btry, attached to 257 VG Div. A 19-year old mechanic, who is an anti-Nazi by up-bringing. He is fully cooperative, although not very observant.
Rating: C-3 Date of Information: Mar 45 Interrogator: R.W.

1. Order of Battle

a) History

73 Mtn Obsn Btry was reorganized in MUNICH following evacuation from the Rumanian front in Nov or Dec 44. Source does not know whether the unit was previously a bn, but claims that some of the original obsn bns have been reorganized into overstrength batteries, similar to 73 Mtn Obsn Btry. PW's Btry was attached to 257 VG Div in Jan 45.

b) Organization And Strength

The Btry consists of approx five officers and 270 men, organized as follows:

Btry Hq	one officer	25 EM

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Survey Pl	one Officer	35 men
Sound Ranging Pl	two Officers	70 men
Flash Ranging Pl	one Officer	70 men
Trains (TROSS & FERNTROSS)		70 men

All figures are approx.

c) Equipment

The equipment used for sound ranging is the same as described in MU 500, Report Ref No 693. In addition, the unit had two to three pre-warning stations, five to six sound ranging stations and a computing section.

d) Tactics

Source confirms information in MU 500, Report Ref No 693. He adds that his Btry was now one of the unnecessary units. Due to lack of amn, counterbattery fire was seldom undertaken. The Btry was mainly used for recn purposes.

e) Replacement Unit

The Repl Unit for 73 Mtn Obsn Btry is 7 BEOBACHTUNGS ERSATZ UND AUSBILDUNGS-ABTEILUNG (7 Repl and Trg Obsn Bn). The unit was stationed in MUNICH until July 44, but was transferred to LANDSHUT in Sept 44 following th air attacks on FREISING.

f) Personalities

CO 73 Mtn Obsn Btry	Capt WILHELM
Survey O and Pl leader	Lt ... ETZER
Sound Ranging Pl leader	Lt SCHOENKE
Pre-Warner	Lt HASEL
Flash Ranging Pl leader	Lt FRITSCH

B. 1164 Fortress Artillery Regt

Source

HADERER, Erwin, OBFW (1st Sgt), 1164 Fortress Arty Regt, Hq (Stab) LENZEN. A 25-year old professional soldier, who is disgusted with the war and German leaders. He is a willing talker and was extremely cooperative.
Rating: B-2 Date of Information: 15 Mar 45 Interrogator: G.J.G.

1. Chain of Command

The chain of command for Fortress Arty units subordinate to XIII SS Corps was as follows:

AOK I
:
:
HARKO (HOEHERE ARTILLERIE KOMMANDO) XIII SS Corps
:
:
1164 Fortress Arty Regt
:
:
Fortress Arty Bns: 1305, 1306, 1504, 1517 and 1518

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2. Equipment

a) 1305 Fortress Arty Bn

The Bn had the following pieces:

12 x 105 mm Guns, K 29 (Polish)
3 x 120 mm Hows, 1.F.H. 373 (Dutch)
4 x 155 mm How (French)

b) 1306 Fortress Arty Bn

The Bn had the following pieces:

12 x 75 mm Field Guns, F.K. 248 (Italian)
4 x 105 mm Guns, model 331 (French)

c) 1504 Fortress Arty Bn

The Bn had the following pieces:

12 x 100 mm hows 1.F.H. 315 (Italian)
14 x 105 mm guns 10 cm K.18 (German)
4 x 152 mm gun hows 15.2 cm K.H. (Russian)
3 x 305 mm hows (Czech)

d). 1517 Fortress Arty Bn

The Bn had the following pieces:

24 x 75 mm Field guns F.K. 248 (Italian)

e) 1518 Fortress Arty Bn

The Bn had the following pieces:

10 x 100 mm hows 1.F.H. 14/19 (Polish)
20 x 100 mm hows 1.F.H. 14/19 (Czech)

3. Ammunition Problems

a) Supply

Source, who was in charge of amn distribution and control of all bns belonging to 1164 Fortress Arty Regt, claims that they faced constant difficulties, for the stock piles were either too big or too small. Genrally they had enough amn for the foreign pieces, but for the German 105 mm guns they only had 1500 rds available, and all demands for more amn met with no success.

Approx 30,000 rds were on hand for the Italian field guns (F.K. 248). The shells were French. The last shipment was received on 10 Mar 45 from ARKO 113, which was subordinate to XIII SS Corps.

Only 2,000 rds were on hand for the 105 mm Polish guns. The Regt was informed in Feb that no additional supplies should be expected.

About 90% of the shells were HE with percussion fuze, while the remaining 10% were AP with combination fuze.

Beg Feb a gen made an inspection and was very much displeased to find such a small supply of AP amn available. A request was made at once to AOK I, but even after several demands had been made, no additional amn was received.

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b) Faulty Ammn

i) Beg Mar 45 a secret letter was received from AOK I by 1164 Fortress Arty Regt with instructions to the effect that all fuzes for the French 75 mm shells, AZ 251, made by the manufacturer whose code name is "f.e.n." were to be replaced at once. It was discovered that all fuzes delivered from this German plant had been sabotaged and were useless. Replacements were asked for, but not received.

ii) About 1 Mar 45 a shipment of 4,000 egg hand grenades arrived, of which 50% were found to be duds.

iii) Much trouble was caused by the unsatisfactory handling and packing of fuzes. According to PW, foreign labor must be responsible for the sabotage, because due to the bad packing, fuzes were either broken or badly fixed, and the shells consequently unusable.

iv) It also often occurred that shells arrived without fuzes, although the fuzes were dispatched at the same time in separate boxes. About 15 Feb 45, 1,000 x 75 mm shells arrived without fuzes.

4. Destruction of German Equipment

Beg Feb instructions were received, which were supposed to have come from the FUEHRERHAUPTQUARTIER, demanding that [illegible]national measures be taken to assure that all guns and ammn be destroyed before falling into enemy hands. But there was such a shortage of explosives, blasting caps, and fuze cords that PW claims orders could not be carried out. All requests for additional blasting material, were in vain.

5. Personalities

HARKO, XIII SS Corps	GENLT (Maj Gen) BRAUN
CO 1164 Fortress Arty Regt	Maj LENZEN
Exec Officer	Lt MULLER
Adj	Lt POTTHOF
Arty Officer	Lt von BELLI
Arty Officer	Lt EGLI

8 April 1945.

Mobile Field Interrogation Unit No 5

Paul Kubala

PAUL KUBALA, Maj, MI,
Commanding.

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SECRET

Ref No 745
22 Mar 45

HEADQUARTERS SEVENTH ARMY
MU 500, CSDIC, G-2
APO 758 US ARMY

DEFENSES AND LOCATIONS IN BADEN

SOURCE.....Page No 1

I. FREIBURG - KARLSRUHE AREA
Ref Map:- CENTRAL EUROPE 1:100,000, Sheets X-2, W-2, and V-2, First Editions

MILITARY — Defenses..... 1

II. WALDKIRCH AREA
Ref Map:- GERMANY 1:25,000, 7913, Second Edition (AEF) (Colored)

MILITARY — a) Defenses..... 1
b) Dump..... 1
c) Location..... 1

III. EMMENDINGEN AREA
Ref Map:- GERMANY 1:25,000, 7813, Second Edition (AEF) (Colored)

MILITARY — Defenses..... 1

IV. ENDINGEN AREA
Ref Map:- GERMANY 1:25,000, 7812, Second Edition (AEF) (Colored)

MILITARY — a) Defenses..... 1
b) Location..... 2

V. ETTENHEIM AREA
Ref Map:- GERMANY 1:25,000, 7712, Second Edition (AEF) (Colored)

MILITARY — Defenses..... 2

VI. OFFENBURG AREA
Ref Map:- GERMANY 1:25,000, 7513, Second Edition (AEF) (Colored)

MILITARY — Defenses..... 2

VII. BUEHL AREA
Ref Map:- GERMANY 1:25,000, 7314, Second Edition (AEF) (Colored)

MILITARY — a) Defenses..... 2
b) Location..... 2

VIII. STEINBACH AREA
Ref Map:- GERMANY 1:25,000, 7214, Second Edition (AEF) (Colored)

MILITARY — Defenses..... 2

IX. BADEN - BADEN AREA
Ref Map:- GERMANY 1:25,000, 7215, Second Edition (AEF) (Colored)

MILITARY — Locations..... 2

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S E C R E T

SOURCE

HEYFELDER, Wolfgang, a 30-year old gardener from BERLIN, who is Alsatian by birth. An ardent anti-Nazi, he deserted his unit (305 HEERESFLAK, 198 Inf Div) in Feb 45, but was apprehended and jailed. He again escaped, and after loitering in BADEN-BADEN for approx five weeks, he crossed the RHINE and reached HAGUENAU, where he was taken into custody by the Americans. He is anxious to help, but is unobservant.
Rating: C-3 Date of Information: Mar 45 Interrogator: G.W.G.

I. FREIBURG - KARLSRUHE AREA
Ref Map:-CENTRAL EUROPE 1:100,000, Sheets X-2, W-2, and V-2, First Editions

Defenses

A new line of defenses is now under construction on the EAST side of the RHINE, along REICH Highway No 3, from FREIBURG to KARLSRUHE. PW worked for eight days on this line, and between 15 and 20 Feb had occasion to see that portion of the line which lies between FREIBURG and BADEN-BADEN, which he describes. A fire trench, approx 1.60 m deep, 0.80 m wide at the bottom, and 1.50 m wide at the top, follows a zig-zag course, roughly parallel to the highway and approx 20 m from it. Every 20 or 30 m along this trench there is a MG post or firing bay. Wooden barracks, prepared as living quarters for the troops, are scattered at irregular intervals in the nearby woods. Starting at ZAHRINGEN (W-0836) the trench follows the highway on the WEST side to a point approx 1 km beyond the center of EMMINGENDEN (W-0845), where it crosses the road and continues on the EAST side of it NORTH to OOS (R-3320). The features of this defense line which PW recalls are listed below.

II. WALDKIRCH AREA
Ref Map:-GERMANY 1:25,000, 7913, Second Edition (AEF) (Colored)

a) Defenses

7-8 x 20 mm and 8 x 37 mm AA guns are located in vic of WASSER (0944).

b) Dump

An important ammn dump containing arty and inf ammn, and mines, piled among the trees, and guarded by SS troops, is located in the woods in grid square 0943.

c) Location

The "ADLER" Div (no details known by source) had its Hq at DENZINGLEN (1141) 15 Feb 45. The insignia of this unit is a flying eagle, in yellow.

III. EMMENDINGEN AREA
Ref Map:-GERMANY 1:25,000, 7813, Second Edition (AEF) (Colored)

Defenses

075472 A tank trap crosses the road WEST of EMMENDINGEN in vic of grid ref.

IV. ENDINGEN AREA
Ref Map:-GERMANY 1:25,000, 7812, Second Edition (AEF) (Colored)

a) Defenses

036508 i) Three occupied 150 mm gun positions, with bunkers for the crews nearby, are located in vic of grid ref. These positions received Allied arty fire

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about 16 Feb 45, but the shells fell 75-100 m to the WEST and caused no damage.

022531 ii) 1 x 150 mm and 3 x 75 mm guns are located in vic of grid ref.

b) Location

Troops of the "ADLER" Div were quartered in KENZINGEN (0254) Feb 45.

V. ETTENHEIM AREA
Ref Map:-GERMANY 1:25,000, 7712, Second Edition (AEF) (Colored)

Defenses

Two anti-tank obstacles cross the road at KIPPENHEIM (0666).

VI. OFFENBURG AREA
Ref Map:-GERMANY 1:25,000, 7513, Second Edition (AEF) (Colored)

Defenses

There are anti-tank obstacles across the road at OFFENBURG (1585).

VII. BUEHL AREA
Ref Map:-GERMANY 1:25,000, 7314, Second Edition (AEF) (Colored)

a) Defenses

Three anti-tank obstacles cross the highway at ACHERN (2403).

b) Location

Hq of 198 Div was located at BUEHL (2901) 17 Feb 45.

III. STEINBACH AREA
Ref Map:-GERMANY 1:25,000, 7214, Second Edition (AEF) (Colored)

Defenses

There are AA positions and communication trenches at MUEHLENBACH (3012), and several MG posts constructed for all around fire. Firing bays of the main trench system are only approx 10 m apart in this area, and work is under way to make this a strong point.

IX. BADEN-BADEN AREA
Ref Map:-GERMANY 1:25,000, 7215, Second Edition (AEF) (Colored)

Note: PW spent several days in BADEN-BADEN beg Mar 45. He was much impressed by the large number of high-ranking officers and Party members he saw there. He states that the whole town is packed with them, and that all hotels and pensions have been requisitioned for Army, Party, and Gov't offices, and for billets for officers and officials. According to source the populace believes that the Allies are under the false impression that the town is used solely for hospitals and for convalescents and therefore the Allies do not bomb it. Taking advantage of this delusion, the Nazis use BADEN-BADEN for many important offices. PW knows of only one hospital in the town (near the RR station), and the top floor of the building is used as an Army communications center, where many BLITZMAEDELS are employed. The town had not been bombed prior to 6 Mar 45, although a few bombs have fallen on OOS, causing only minor damage.

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SECRET

Locations

405154-411152 i) Between grid refs, there is said to be a tunnel approx 700 m long, built into the mountain. Its construction was started in 1939, and it is now supposedly an important hq for Army, Party, and Gov't. It is also rumored that HITLER uses this Hq. Since the heavy bombardments of BERLIN began, documents, food, wine and all sorts of material have been arriving constantly by truck convoys.

405154 Many SS guards are stationed about the entrance, vic of grid ref, as well as at the exit, and no civilian is permitted to approach. The plaza in front of the entrance is so cleverly camouflaged that it appears to be simply a continuation of the woodland, the nets being changed almost daily to conform to the appearance of the forest growth above the tunnel.

ii) The KREISKOMMANDANTUR is at the Hotel REGINA (MOLTKE STRASSE).

iii) The GOLDENE ADLER Hotel, (LICHTENTALLER STRASSE), serves as quarters and mess for high-ranking officers. (ROBERT WAGNER eats here daily).

iv) The GYMNASIUM (School) of the LICHTENTALLER ALLEE is used as billets for EM.

v) The Hotel MUELLER is Hq of an unknown unit. Many BLITZMAEDELS are there during the day, and high-ranking officers enter and leave constantly.

vi) In the KURHAUS (Casino) are the offices of the Party and the WEHRMACHT.

vii) The Hq of the SS are at LICHTENTAL (3816), where 7-8 big villas along the SOUTH side of the road are guarded by many SS men. An SS BRIGADE-FUEHRER (Brigadier General) lives in one of these villas.

335202 viii) There is a military barracks at 00S, in vic of grid ref.

22 March 1945

MU 500, CSDIC, SEVENTH ARMY

PAUL KUBALA, Maj, MI,
Commanding.

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S E C R E T

Locations

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22 March 1945

MU 500, CSDIC, SEVENTH ARMY

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Ref No 744
22 Mar 45

HEADQUARTERS SEVENTH ARMY
MU 500, CSDIC, G-2
APO 758 US ARMY

GERMAN RADAR JAMMING SETS

SOURCE

KUB, Guenther, Cpl, 2 Bn, 87 Gren Regt, 36 VOLKSGRENADIER Div, a 25-year old former electrician, who volunteered for the Army in 1939. He entered the GAF signal school at GUTERSLO (?), in Westphalia, where he took a course in cable work, telephones, radio, and some radar. Later he worked in various places throughout Germany, installing cables and radio apparatus. When GAF personnel were taken into the inf he managed to stay in signal work, and was stringing phone lines for 87 VG Regt when captured.
Rating: B-3 Date of Information: Oct 44 Interrogator: F.J.S.

A. ENEMY JAMMING SETS

I. THE HEINRICH SENDER

a) Operations

This is a 500-watt set which is used primarily for jamming purposes, taking the place of the FREYA. It does not track or "aim" at any particular plane or formation, but the jamming signals are sent out in all directions, with an effective range of approx 50 km. The HEINRICH is usually placed on the top of a high hill, and telephone communications are maintained with various FREYA and WUERZBURG RIESE sets. When a WUERZBURG picks up an enemy plane, a telephone message is sent to the HEINRICH giving the frequency of the enemy beam, and the level and range of the formation. The WUERZBURG uses a DORA to pick up this beam, the procedure taking approx 10-12 minutes. If the HEINRICH's jamming is effective it can be heard on the DORA, so if adjustments are needed, corrections can immediately be phoned to the HEINRICH. PW states that corrections for level are seldom necessary after the initial data have been received, since the HEINRICH's frequency band is wide and does not require pinpoint adjustment. However, the WUERZBURG constantly reports the progress of the enemy formation, so that the HEINRICH's current can be reduced; otherwise the jamming signals would pass beyond the planes and be ineffective. This adjustment is made periodically until notification by the WUERZBURG to cease operation.

PW states that there is a continuous chain of such installations along the entire German border, the areas covered by the sets overlapping so that there is 100% jamming coverage.

b) The Antenna (RUSEN ?)

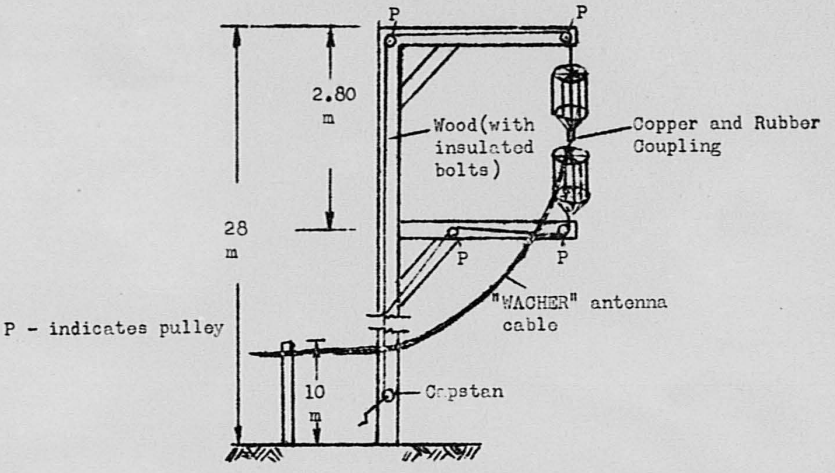
The antenna for the HEINRICH is normally approx 28 m high, but when located on low terrain it is placed on a steel tower approx 40 m high. Such an installation occurs at LAHE, on the outskirts of HANNOVER, but source could not give its exact location. The antenna parts are suspended by a rope from a wooden scaffold, and can be raised or lowered to gain more accurate "levelling". A heavy cable is carried from the transmitter set to the mast on posts approx 10 m high so that it is not influenced by objects on the ground. A strong copper coupling is used between the two antenna units. PW states that there are two antennae for each installation. If one unit fails, the other is sufficient to produce jamming action. The name RUSEN is the only name source has heard used in connection with this antenna arrangement. (See sketch, following page.)

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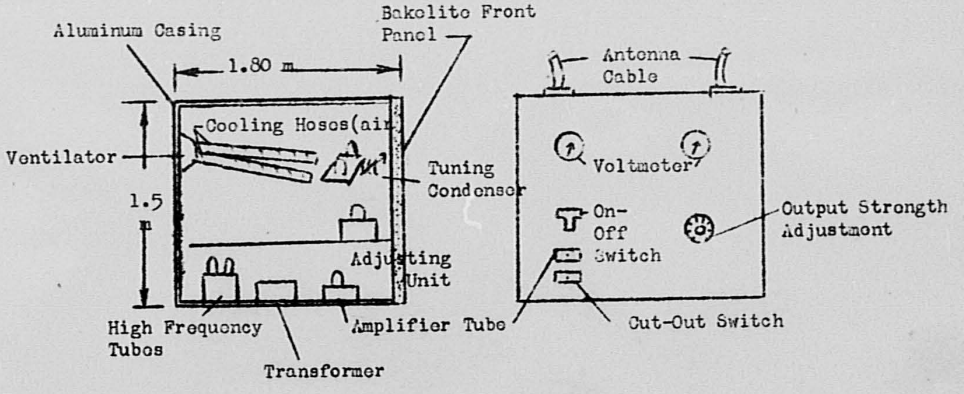
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c) The Transmitter

The transmitter has two identical units, each connected by a cable to a separate antenna, as noted above and shown in the sketch below. One tuning knob operates both transmitter units, and if one unit ceases to function it does not interfere with the operation of the other. Since the transmitter set is cased in aluminum, it is protected from local interference and may be housed in any type of wood or stone building.



II. THE KARL SENDER

The KARL is a new set, similar to the HEINRICH, but having a greater range (70 km). PW knows of no other difference. The same antenna is used, and the entire

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arrangement of parts is the same.

B. JAMMING STATION NEAR WIESBADEN

Ref Map: CENTRAL EUROPE 1:100,000, Sheet T-2, First Edition

Approx 10 km NW of WIESBADEN (3564), and 1 km WEST of SEITZENHAHN (2769), the installation is located in vic 268698 on a bare ridge which rises above surroundin woodland. It is composed of three wooden buildings approx 5 x 13 m and 3 m high, arranged in a triangle, and encircled by 16 antenna towers approx 28 m high. The circle of towers is in a rectangular enclosure formed by a wood fence approx 70 cm high. The buildings are painted green and have tarpaper roofs. One building serves as living quarters, one houses a HEINRICH sender, and the other houses a KARL sender. PW does not know the exact arrangement of the sets, as these were changed from time to time. He states that when he was there in 1944 plans were being made to enlarge the installation. Approx six searchlights are spotted in the surrounding woods, but source could not give their exact location.

In July 44 this station was in direct communication with the RLM (REICHSLUFT-FAHRTSMINISTERIUM) in Berlin, but PW does not know whether such was still the case when he revisited the station in Oct 44. According to source the unit designation was FUNKSENDERSTELLE WIESBADEN HOHENWURZHEIM.

22 March 1945

MJ 500, CSDIC, SEVENTH ARMY

Joseph D'Addario, Lt Lt CMP

for PAUL KUBALA, Maj, MI,
Commanding.

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S E C R E T

Ref No 739
19 Mar 45

HEADQUARTERS SEVENTH ARMY
MU 500, OSDIC, G-2
APO 758 US ARMY

CW DUMPS IN LEIPZIG AREA

(This report has been prepared in conjunction with APWIU, 1st TAF (Adv))

SOURCE

KAZMIRZAK, Joseph, Pfc, 225 Regt, 16 Inf Div. A 34-year old window cleaner from BERLIN with three years' Army service. Of average intelligence, he was co-operative during the interrogation and appeared to be reliable. He bore a grudge against the Nazis for expropriating his land.
Rating: B-3 Date of Information: 23 Jan 45 Interrogator: F.N.S.

TOPOGRAPHICAL

A. LOSSA AREA
Ref Map: GSGS 4416 CENTRAL EUROPE 1:100,000, Sheet R-6, First Edition

a) In the woods SE of LOSSA, about 70 km WSW of LEIPZIG, with the center at 5997, there is a dump which originally contained incendiary bombs, but at the end of Jan 45 it contained only gas bombs. Source worked at the dump as a gas checker from June 42 to Dec 43. He revisited the dump on a furlough from 7 Jan to 23 Jan 45. The information in this report is based upon the latter date.

The dump consists of about 400 concrete storage bunkers spaced 100-200 m apart. They are all earth-covered and have concrete roofs which are only 10-15 cm thick. The dimensions are about 10 x 8 x 3 m. Each bunker has a capacity of 200-400 bombs. The bombs vary in weight: 150, 250, 500 and 900 kg. All bombs are distinguished by colored bands; white, yellow, blue or green. Source does not know what gases they contain. The gas bombs are stored in wooden boxes, one bomb to a box. Because of the thin walls of the bomb, some of the larger boxes are lined with felt. In Jan 45 most of the storage bunkers were filled with gas bombs.

One-way concrete roads have been constructed in the woods to facilitate transportation. One road describes a circle around the dump, just inside the boundary of the wooded area. Four other roads run NORTH to SOUTH, and connect with the outside road. The bunkers are built on both sides of these roads; they are about 3 m from the road, so that a truck can back up to the bunker.

It is believed that the bombs are brought from Upper Silesia. Two to three times weekly a train, consisting of about 30 cars, enters the dump via a spur line. Each car has an average capacity of 40 bombs. After having been checked at the sidings the bombs are stored in the bunkers.

b) The second dump is located NW of LOSSA in a large wood on the WEST side of the LOSSA-WIEHE Road, with center at 550999. This dump consists of 168 sheds with wooden, inclined roofs and no walls. Additional sheds were in the process of construction late in Jan 45. The sheds are 150-200 m apart and have a storage capacity of approx 200 bombs each. On 23 Jan 45 most were filled to capacity.

A one-way concrete road runs WEST into the woods, starting at the LOSSA-WIEHE Road. It is about 700 m long. On both sides of this concrete road the sheds extend 3-4 rows into the woods. All sheds are connected by a Decauville, narrow-gauge track with hand carts. At 200 m intervals the track joins the concrete road where trucks can unload gas bombs on the hand carts.

About twice weekly a 60-car train unloads gas bombs adjacent to the LOSSA railroad station, where trucks wait to transport the bombs to the dump.

General

Each day a crew of eight men check the bombs for leaks. Mice are used for this

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purpose; they are left in the bunkers for about three-hour periods. If the mice are found dead at the end of this period, all the bombs in the bunker or bunkers concerned are rechecked and the bombs with leaks are destroyed. The damaged bomb is placed in a small pool of water and a hole is punched in it with a long steel rod, permitting the gas to escape under water. On the average, four to six bombs had to be destroyed daily in dump a, above, while in dump b, above, three to four bombs are destroyed weekly.

The pins (ZUENDER) are replaced regularly, so that each month every bomb has a new pin. Most gas leaks are found to occur in the head of the bomb. Those manufactured in 1939 caused the most trouble. According to source the bombs stored in dump b, above, are all of comparatively recent manufacture and have fewer defects.

Whenever the soldiers working in the area of these dumps entered the gas storage area they had to wear rubber suits of Czech manufacture, rubber gloves, and a gas mask with an oxygen bottle attached. The bottle was effective for 45 minutes; a clock attached to the mask indicates the time when the oxygen bottle is to be changed. During the time source was in the dumps nobody was ever injured by the gas.

Soldiers on duty at these dumps, guards and medical personnel, all live in the same barracks, opposite the LOSSA railroad station. The duties of the guards and workers are frequently interchanged.

During the time PW was at these dumps no bombs were ever removed. The type of aircraft that can carry a load of these bombs is not known to source.

As far as PW knows, neither of these dumps has ever been bombed. There are no AA defense installations in the vic of the dumps. Both dumps are surrounded by a 2½ m-high wire fence along which guards patrol 24 hours a day.

The entire installation is under the command of Lt Col FELSKE, who was still there at the end of Jan 45.

B. MOCKREHNA AREA
Ref Map: GSGS 4416, CENTRAL EUROPE 1:100,000, Sheet ♀ 7, First Edition

From Jan to Mar 44 source was on duty as a guard at the gas dump and gas filling installation located in the woods with center at 505340, approx 33 km NE of LEIPZIG.

Empty gas bomb casings arrived at the installation by rail, trains entering the woods via a siding which branches off the LEIPZIG-TORGAU line. Source does not know where the casings are produced or the number that arrived weekly. About twice weekly a train consisting of two or three tank cars emptied its gas contents into a large tank. This tank had a capacity of 500,000 liters and was built in a large concrete bunker which is camouflaged with earth and small trees. The empty gas bombs were filled from this tank, 600 bombs being filled in an eight-hour shift.

After being filled the bombs were stored in concrete storage bunkers, approx two and a half times the size of the bunkers described in A, a, above. These bunkers were scattered throughout the wooded area. When PW was there the dump was being enlarged by Russian PW. The bunkers that were under construction were larger than the existing bunkers. Source estimates that this dump had a capacity approx equal to both dumps in A, above.

A net of one-way concrete roads, similar to the dump in A, a, above, has been built throughout the wooded area. The bunkers were built along both sides of these roads and have specially-constructed roadways which permit a truck to back into the bunker.

The bombs were checked as described in A, above. The bombs in this dump had no colored bands. Source does not know what types of gases the bombs contained. The protective clothing worn by the soldiers was similar to that worn by the soldiers in the dumps in A, above.

Soldiers and guards working in the dump were quartered in barracks EAST of MOCKREHNA. The entire installation was surrounded by a wire fence 2½ m high. The fence was patrolled 24 hours a day. No AA defense positions were in the vic of the in-

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stallation.

According to PW, the installation was bombed in the spring of 44, most of the bombs falling SE of MOOKRENNA. The few bombs which fell in the woods caused no damage.

19 March 1945.

MU 500, CSDIC, SEVENTH ARMY

for Joseph D'Asaro, 1st Lt AC

PAUL KUBALA, Maj, MI,
Commanding.

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Ref No X-4
24 Feb 45

: [redacted] SECRET :
: Auth: CG, SEVENTH ARMY :
: Initials: W.N.Q. :
: Date: 24 Feb 45 :

HEADQUARTERS SEVENTH ARMY
MU 500, OSDIC, G-2
APO 758 US ARMY

P/W 2632
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Copy No 14

If the information contained in this report is required for further distribution, it should be so paraphrased that no mention is made of the prisoners' names or of the methods by which the information has been obtained.

The following are the names and secret numbers of the prisoners mentioned in this report: -

Name	Rank	Secret No	Unit	Place and Date of Capture
MAJERT, Walter	Maj	M 45/715	CO 1 Bn, 477 Regt, 257 VG Div	SEVENTH ARMY FRONT 11 Feb 45
JAMIN, Friedrich	Maj	M 45/734	CO 1 Bn, 74 Regt, 19 VG Div	SEVENTH ARMY FRONT 17 Feb 45
MELZEL, Hans	Capt	M 45/733	CO 2 Bn, 880 Gren Regt, 347 Inf Div	SEVENTH ARMY FRONT 17 Feb 45

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WELZEL: I was assigned to 2 Bn, 980 Regt in mid-Jan. The old Col came up to me and said: "Well, put up a good show". If the Col would have had a better knowledge of the terrain between the MLR and the CP, things would have turned out differently. It's too bad we have to put up with such inefficient commanders. Our old man comes from the rear echelon and has never been up front. I can't understand why we give these old men a regt to command.

MAJERT: In Russia the ordinary German soldier was more afraid of the enemy than of his own leaders, but here it is the other way around.

M: These counterattacks which we are making at the present time with inadequate forces are absolutely nonsensical. We can't make these counter-attacks - 100 men against an Allied bn. We have to adjust our tactics in such a manner that the enemy will be hit where he is weak. We cannot do much with arty, armor or paratroops (against the Americans). What the American is not good at is taking cover. Once you start firing, he stays down. He does not know how to advance under arty fire. We could do a great deal with good infantry troops and well trained NCO's. It's impossible to make our men go into the arty fire now. The Americans are good at zeroing-in their arty.

M: And the Russians are masters at it, while our own arty takes a long time to zero-in and wastes as many as 10 rounds to do it.

* * * * * * *

M: I had 60 per cent GAF personnel who were re-trained. Even my platoon leaders were GAF men. Two of my officers were men who were previously deferred. There was also something the matter with my adjutant. In the long run we cannot fight like that.

M: In our sector three strongpoints were manned by one co and the company commander was not with his men, but back in the village. I told him "The General is coming up front, and you are sitting here?" It's true the General used to come pretty far forward.

M: Yes, with the General one could see eye to eye.

JAMIN: There are 27 men left from my unit.

M: How much armor did you have left?

J: They had 15 tanks left, but the American arty took them under fire and they retreated. My men were unable to hold off the Americans and gave up the first bunkerline.

M: Which bunkerline?

J: I was in positions just in front of the Westwall. If the bunkerline is here (demonstrating), you take up positions about 400 m forward, depending on the terrain; if these positions are eliminated and the men holding them are lost, you also lose the bunkers into which you are supposed to retire.

M: My MLR was organized as follows(demonstrating): here was a position with two men, 500 m away another position with two men, 400 m to the rear a position with four men, 400 m to the rear again, a position with eight men. How can one hold an MLR like that? If I had one company of Americans I could go through just like that.

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M: They (the Americans) should be ashamed of every day they waste. It was the same in my sector. Instead of advancing 500 m a day, they should make at least 2 km.

W: They think we are much stronger than we really are.

M: It seems that they want to make a jump from here to BADEN-BADEN.

W: You mean the other side of the RHINE?

M: Yes. All these long preparations are not at all necessary. They will be ashamed to have prepared so long and carefully.

W: Of course if they start the operations to-day, they would be firmly on the other side by to-morrow. If they do not attack now, they will have to wait until May. The RHINE is flooded now and will not let up until May.

* * * * * * *

W: I was always afraid the first two days after coming back from the rest area.

M: The first two days I was unable to eat anything. The arty gave us no rest - and then came the order to counter-attack.

W: Whoever claims that he is not afraid in battle is a liar. I always wanted to knock out a tank, but never came to it.

J: I waited for days for such an opportunity. (Pause) My God, if they would push through there, we haven't got anything to hold them.

M: Well, we will have to rely on the SS.

J: They won't be able to hold them off either.

M: They put up a better fight than the Army. I was able to see them in action in my sector. I was supposed to relieve (another) bn. I went to see the regimental commander, and just then the Americans attacked. Without waiting for orders they (SS) tried hard to eliminate the wedge which the Americans had driven into our lines. In Russia they also put up a good show.

W: It always made me angry the way the SS was getting credit for everything. After all, they got the best soldiers, material and food. Many times I had to go to ask the Air Force for rations, because I could not get them from the Army.

M: Our soldiers are badly trained and constant Allied arty fire never gave us any rest. It all made me angry and I sometimes took it out on the men.

J: I can't complain about my men. They did what they could.

W: One should not belittle the work which our badly trained soldiers are still doing, - and that even without the support of heavy weapons. If I look back at my crowd, VOLKSLISTE 2,3 and 4!

M: Each week I had to hold a refresher course. Imagine, soldiers who have been lying in foxholes for days have to listen to these talks. It's a laugh.

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W: The whole business has become a joke. I received one single PANZERFAUST for training purposes. Imagine, one PANZERFAUST.

J: That's a joke all right. And as for weapons - one or two MG for 3-400 men.

W: I had four MG for 200 men on the average.

* * * * * * * *

W: I don't think that the VOLKSSTURM will prove itself here in the WEST. On the Russian front maybe, because there one can still fight with a rifle, but not here. If the FUEHRER had anything left in reserve, he would use it now. I don't think he has anything. With regards to manpower, there may be two or three armies, but that is doubtful. We might be able to get them together, but they have to be organized first. The weapons are good, but what good are the weapons when the men who have to use them won't fire?

J: All Germany expected our new Air Force to go into action in January. Months ago they showed us pictures of two new types which could not be shot down. I haven't seen or heard anything of them anymore, and now I don't believe they were German. The same can be said of the other secret weapons which have been promised the WEHRMACHT.

* * * * * * * *

M: The American winter uniform resembles the German quite a bit. Once I was observing troops through my field glasses and I was sure they were our (German) soldiers.

W: You know, the Americans shoot all (German) soldiers wearing American uniforms. Long range reconnaissance troops (FERNSPAEHTRUPPS), even when they are captured far behind the lines, are treated well if they are in German uniforms. But troops like the SKORZENY men, or anyone in American uniform, are shot.

24 February 1945

MJ 500, CSDIC, SEVENTH ARMY

PAUL KUBALA, Maj, MI,
Commanding.

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S E C R E T Extract from PW Bulliten No 2/38

Dated 21 February 1945

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12. A/c Parts Fa ctory, OBERLUNGWTIZ/Thueringen.

* * * * *

Production. LANDGRAF & Co. is engaged in the manufacture of transmission parts for JUMO 211 and 213 motors. Gears and rough casts arrive by truck from CZECHOSLOVAKIA. Finished products are shipped to JUNKERS, KOETHEN, for immediate use, or to VENUSBERG, GSGS 4416/87/72 464, for storage. PW states that a monthly quota of parts for 500 transmissions is filled.

* * * * *

13. New Welding Process.

PW, who worked in three plants of Saar-Metallwerke AG, SAARBRUECKEN, from 1942 until his induction into the Volkssturm on 19 Nov 44, reports a new and secret "Divisionsverfahren" introduced in Nov. 1943 whereby steel is "indivisibly" joined to other metals. The quality of steel employed was unknown to PW; copper-zinc, copper-lead, and other alloys were mentioned as the other metals used.

PW could give no details, having had no access to the part of the plant where the process was applied.

(Source: Gren Christian SCHMIDT, Volkssturm, SAARBRUECKEN)

* * * * *

TECHNICAL INTELLIGENCE

* * * * *

The AA Weapon.

When PW started to work for J. GAST, a new AA weapon was just going into mass production. PW gives the following description of the weapon, which he saw assembled for shipment. (See ANNEX I)

35 sheetmetal tubes are arranged in five rows of seven. Each tube is appr 1 m long and 10-12 cm in diameter. These tubes, which have no rifling, are appr 3 cm apart near the muzzle and somewhat closer together near the breach so as to give the projectile a greater dispersion.

The tubes, which are welded together by flat pieces of metal in two places, are suspended in a cradle, like a searchlight, and can be set at any desired angle. On the left side of the cradle, facing in the firing direction, a lever is attached which can be set in two positions, marked "S" for "sicher" (safe) and "F" for "Feuer" (Fire). When the lever is on "F", it will set off all 35 rocket-propelled projectiles simultaneously.

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PW is unable to give a clear description of the firing mechanism and other details.

PW saw a dummy projectile, excatly like the ones used in actual firing, he was told, with which the clearance of the barrels. He heard that the projectiles will go higher than 15,000 m and that they explode in the air at a pre-determined height. (See ANNEX I)

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CONTENTS

FIR Nr. 6
11
12
29
35

CIR Nr. 1

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ENTS

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12
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29 Aug 45

SEVENTH ARMY INTERROGATION CENTER
APO 758

Final Interrogation Report

PLANS FOR JET-PROPELLED AIRCRAFT & ACCESSORIES

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EO 11652

CONTENTS

		Page
1.	References	1
2.	Personal Data	1
3.	Administrative Data	1
4.	Interrogation Results	1
	a. Introduction	1
	b. Transfer of Jet-Propelled Aircraft Plans to the Japanese	2
	c. Transfer of RIEDEL Starter Plans to Japanese in Germany	2
	d. Names of Japanese with whom Source had Contact	2
5.	Conclusions	2
6.	Comments and Recommendations	3

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C O N F I D E N T I A L

Ref No SAIC/FIR/35
29 Aug 45

1. REFERENCES: Ref No SAIC/PIR/157, 12 Jul 45

2. PERSONAL DATA

a. SURNAME: OEHL
b. CHRISTIAN NAME: Eduard
c. ALIAS: None
d. DATE AND PLACE OF BIRTH: 3 Oct 1900, in NUREMBERG
e. NATIONALITY CLAIMED: German
f. OCCUPATION: Attorney and industrialist
g. RELIGION: Catholic
h. DESCRIPTION:
(1) HEIGHT: 5'9"
(2) WEIGHT: 176 lbs
(3) BUILD: Stocky
(4) FACE: Round
(5) HAIR: Dark brown
(6) PHYSICAL PECULIARITIES: Duelling scars on left cheek and chin
(7) OUTSTANDING CHARACTERISTICS: None
(8) EYES: Grey-brown
(9) TRAVELS ABROAD: Italy 1932 and 1933 (business); England 1934 (business); Holland 1935 (relatives); Switzerland 1936 (vacation); Africa, Spain, Italy and England 1937 (3 weeks tour); Paris 1936 or 1937 (World's Fair)
i. LAST PERMANENT ADDRESS: NUREMBERG, Koenigstrasse 23.
j. LANGUAGES: Studied Greek, Latin, French, English in School.
k. FATHER: Franz, merchant, born 18 Jan 71, deceased 1942.
l. MOTHER: Maria nee HOFMANN, born 28 Jan 75, VILSBURG, OBERPFALZ.
m. BROTHERS: Franz, merchant, born 1899, deceased 1930.
n. SISTERS: Annemarie, nurse, born 15 Dec 07, BILDEN-ANSTALT, NUERNBERG.
o. WIFE: Gertrud nee SCHEIB, born 26 Jan 08, NUGGENDORF, OBER-FRANKEN.
p. CHILDREN: Rainer, born 24 Jan 41, lives with mother.
q. IDENTITY DOCUMENTS: WEHRPASS, checkbook, business letters.

3. ADMINISTRATIVE DATA

a. SOURCE OF PRISONER, INCLUDING ARRESTING AGENCY: 42 Div CIC Det
b. ACCEPTED ON RECOMMENDATION OR REQUEST OF: G-2, Seventh Army
c. DATE OF ARRIVAL: 29 May 45
d. RESUME OF DOCUMENTS SENT IN WITH PRISONER: Records of negotiations concerning sale of patent rights to Japan
e. RESULTS OF NAME CHECK AGAINST PERSONALITY CARD INDEX: Not available
f. BRIEFS UPON WHICH PRISONER WAS INTERROGATED: Special Interrogation Brief from Hq. USFET, Office of the A.C.of S., G-2, APO 757, dated 7 Aug 45. Subject: JET-PROPELLED AIRCRAFT PLANS.

4. INTERROGATION RESULTS

a. INTRODUCTION

Subject was an acquaintance of Norbert RIEDEL, inventor and developer of the starter said to be used in all jet-propelled aircraft of the GAF. Subject was also a stockholder in the firm of NORBERT RIEDEL K.G: KONSTRUKTION UND ENTWICKLUNG VON FLUGZEUG UND KRAFTFAHRZEUGZUBEHOER and, on occasion, acted as legal representative of the company in connection with various business transactions.

The RIEDEL Concern is only a small developmental and experimental laboratory, concerned chiefly with the development of RIEDEL's invention of the 10 HP gasoline starter for jet-propelled aircraft and also with his later experiments on 20 HP and 40 HP starters for stronger jet units which were said to be under construction. The actual manufacture of the RIEDEL Starter was done, under licensing agreement, by JUNKERS DESSAU, N.S.U. HECKARSULM,

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6. COMMENTS AND RECOMMENDATIONS

a. The engineer Norbert RIEDEL (31 years old, 172 cm tall, dark brown eyes, dark blond hair, slim, married, one child) should be apprehended and interrogated concerning his knowledge of the working of his Starter and further developments and improvements. According to source, RIEDEL is not interested in politics, never served in the German Armed Forces, was not a member of the National Socialist Party, and will be ready to cooperate in any exploitation of his invention. Source does not know the present whereabouts of RIEDEL.

b. Since subject has no technical knowledge regarding the RIEDEL Starter and since no charge against him is apparent, other than early membership in the Nazi Party, it is recommended that he be released.

29 Aug 45

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Paul Kubala

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Major, MI,
Commanding.

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VIKTORIAWERK, NUREMBERG.

Subject claims to have no knowledge of the technical aspects of RIEDEL's work, but was extremely cooperative in setting forth his knowledge of the RIEDEL firm's business dealings.

Rating: C-3 Interrogator: RU

b. TRANSFER OF JET-PROPELLED AIRCRAFT PLANS TO THE JAPANESE

Source states that RIEDEL and his company were not concerned with the jet-propelled aircraft itself, but only with the development of the starter for the jet mechanism. Therefore, subject claims that he knows nothing whatsoever regarding the date or method of transfer of jet-propelled aircraft plans to Japan, although he states that he "heard" that "the submarine carrying the data and blueprints for the jet aircraft which was said to have left for Japan had been captured by the American Navy."

c. TRANSFER OF RIEDEL STARTER PLANS TO JAPANESE IN GERMANY

Source does not know the exact date of the transfer of the plans for the RIEDEL starter to the Japanese in Germany, but he believes that it occurred sometime during the latter half of Sep 44. In the Summer of 1944, the German Air Ministry ordered the JUNKERS FLUGZEUG UND MOTORENWERKE, AG, License Division, GERMRODE (Harz) to deliver a complete set of plans of the RIEDEL Starter, 9-7034, which was being used with the JUMO SCHNELLTRIEBWERK 004 (JUMO Turbo-Motor), in order to hand them over to the Japanese government.

The plans of the RIEDEL Starter 9-7034 had been transferred to the JUNKERSWERKE AG, MOTORENBAU, STAMMWERK DESSAU, MOTORENENTWICKLUNG AUSLAND, a Mr. GOLD in charge, between 22 Jul 44 and 15 Sep 44. Source supposes that the transfer of the plans to the Japanese in Germany took place during the second part of Sep 44, because the JUNKERS people wrote to RIEDEL on 15 Sep 44 as follows:

"The plans delivered by your company have been given a preliminary examination by a Japanese committee but have not been handed over as yet. The delivery will take place within the next few days."

Accompanying this letter was a statement by the Japanese Naval Captain IKEDA of 6 Sep 44 concerning the protection of the RIEDEL Starter patents.

As of Mar 45, source knew of no further requests for plans of the Starter, so it is to be presumed that these plans were successfully delivered to the Japanese in Germany at the time of the Sep 44 negotiations.

As far as source knows, the transfer of the RIEDEL Starter plans to the Japanese resulted from the negotiations of the latter for turbo-jet units with JUNKERS. Subject knows of no direct contact between RIEDEL and the Japanese. The final contract between RIEDEL and the Japanese government was to be made by the REICHSGRUPPE INDUSTRIE, a Mr LUUK conducting the negotiations, after the Japanese Committee had accepted the plans. The license claim was set at 2,500,000 marks, but source does not know if the contract was ever signed by the Japanese.

d. NAMES OF JAPANESE WITH WHOM SOURCE HAD CONTACT

Source had no technical negotiations with the Japanese concerning the starter, and, to his knowledge, no Japanese ever visited the RIEDEL factory. The only Japanese contact of the source was with Mr SAKAI, a secretary of the Japanese legation, concerning the payment of the 2,500,000 mark licensing fee.

5. CONCLUSIONS: None

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6. COMMENTS AND RECOMMENDATIONS

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Final Interrogation Report

A SUMMARY OF THE GERMAN CAMPAIGNS IN ITALY AND FRANCE FROM AUTUMN 1943 - SEP 44 BY GEN D ART (LT GEN) WALTER WARLIMONT

CONTENTS

	Page
A. THE BATTLE FOR THE ITALIAN MAINLAND	1
1. German-Italian Defensive Preparations	1
2. German-Italian Estrangement	1
3. Landings in Italy	2
a. SALERNO	2
b. ANZIO	2
4. The Drive Past ROME	3
5. Italy at the Time of the NORMANDY Invasion	3
B. THE BATTLE OF FRANCE	4
1. General German Defensive Preparations	4
a. Construction of Coastal Defenses	4
b. Disposition of Troops	4
c. Differences of Opinion	5
2. On the Eve of Invasion	6
3. The Invasion	6
a. Initial Landings, a Surprise	6
b. Superior Allied Air Forces	7
c. Dwindling German Reserves	7
4. The Allied Drive Inland	8
5. The German Effort to Prevent a Complete Rout	9
C. THE CAMPAIGN IN SOUTHERN FRANCE - A Flashback	10
1. German Defensive Preparations	10
2. The Allied Landings in Southern France	11

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C O N F I D E N T I A L

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21 Sep 45

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Final Interrogation Report

A SUMMARY OF THE GERMAN CAMPAIGNS IN ITALY AND FRANCE FROM AUTUMN 1943 - SEP 44 BY GEN D ART (LT GEN) WALTER WARLIMONT

(Note: This report should be read in conjunction with Report Ref No SAIC/FIR/3, 2 Jul 45, and Report Ref No SAIC/FIR/11, 24 Jul 45. It completes Gen WARLIMONT's history of the German Campaigns, begun in the latter report.)

SOURCE

WARLIMONT, Walter, GEN D ART (Lt Gen), Deputy Chief of the Armed Forces Operations Staff (WEHRMACHTSFUERUNGSSTAB) and Chief of the Joint Planning Staff. (Of Report Ref No SAIC/FIR/11)

Rating: C-3 Date of Information: See Text Interrogator: G.W.G.

A. THE BATTLE FOR THE ITALIAN MAINLAND

1. GERMAN-ITALIAN DEFENSIVE PREPARATIONS

After the fall of Sicily a regrouping of forces was carried out in Southern Italy, whereby the main strength was centered around NAPLES and SALERNO, and weaker forces were held in Calabria and Apulia. The Germans also made efforts to transport more divisions to Italy in order to prevent further Allied landings, especially on the mainland. Any further landings were bound to bring increasingly dangerous military and political repercussions. Everything possible was done, too, to keep the German Luftwaffe committed in strength, and to supply the Italians with weapons for their own use. The deliveries of the latter, however, fell far below the Italian demands.

Just how far all these efforts succeeded up until the time of the coup against MUSSOLINI, source is unable to say. He is certain, however, that beginning at that time, the transport of new German forces to Italy was greatly emphasized, and it was carried out despite repeated objections made by the Italians. There was a twofold purpose behind these troop movements. They were meant to secure communications with German forces in Central and Southern Italy in case of an Italian surrender, which HITLER then considered an imminent certainty; and they were to establish a line in Italy as far as possible from the German border, to be held by German troops alone if necessary.

2. GERMAN-ITALIAN ESTRANGEMENT

The German Foreign Minister and Field Marshal KEITEL, whom source accompanied at the time, participated in the first and only meeting with the new Italian government. It took place in TARVIS in the early part of Aug 1943. The problems were discussed in detail at the meeting, and some agreement was reached. Among them was the decision to transfer those Italian divisions presumed to be the best, and which were stationed in Northern Italy, to the threatened areas of Southern Italy. All measures were directed toward the continuation of the defense of the Italian coastal areas.

The German forces that began to arrive in assembly areas in Southern Germany and in the border areas of German-occupied France, were taken partially from the reserves of the Commander in Chief of the West, and partially from troops in rest, from the Eastern Front. Altogether the total came to eight large units. The command of these units, as well as the supreme command of all troops in Italy, was to be given to Field Marshal ROMMEL, whose mission and temporary headquarters in MUNICH were kept secret from the Italians.

The weeks just before the Italian surrender were marked by an increasing amount of friction between the two parties. There were almost daily clashes

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either in the border areas, or during negotiations in ROME. In spite of this, the Germans were able to carry out their program almost completely.

The discord between the two countries reached a peak in the meeting that took place in BOLOGNA on 15 Aug 43 between JODL and ROATTA, in which ROMMEL also participated. At this meeting the question of a unified command was also taken up again, without either side really seriously believing in the possibility of an agreement.

The Germans were making preparations at that time in Italy, the Balkans and the Aegean coastal areas, as well as in Southern France, for taking over all military positions and missions in the event of an Italian surrender. Some new German units were also transferred to the Balkans.

When Italy actually surrendered, the planned operations were put into motion by a code word, and were carried out with almost complete success.

3. LANDINGS IN ITALY

a) SALERNO

(From 6 Sep to the beginning of Dec 1943, source was absent from his work, having to undergo an operation. He is therefor uninformed about the details of events that transpired during the interval.)

As previously mentioned, after the fall of Sicily the German High Command considered the NAPLES-SALERNO sector, where amphibious landings actually took place later, to be especially threatened. Consequently, this sector was manned by the relatively strong force of two divisions. In this period the previously made decision to put Field Marshal ROMMEL in command was dropped in favor of the retention of Field Marshal KESSELRING. KESSELRING, while commanding the Second Air Fleet in Africa, had gained great influence with the High Command. After the Allied landings had taken place in North Africa, he was made supreme commander of all the forces there, and his authority exceeded that of VON ARNIM's Army High Command. He later became Commander in Chief of the Southwest, and was in charge of all operations in Italy.

In Dec 1943 the Germans held the now famous line that ran through the area before GAETA, around CASSINO, through the ABRUZZI Mts, and in a generally easterly direction to the Adriatic Sea. A strong reserve of two divisions was held behind the Tyrrhenian flank. The troops had the mission of holding this line, and also of preventing further landings that were expected in the area around the mouth of the TIBER River, and further north near LEGHORN.

b) ANZIO

The attacks, which preceded the landing near NETTUNO, on the west flank of the main line, effectively removed the reserves from that area. The entire landing operation came as a complete surprise because air reconnaisance had only partially recognised the concentration of landing barges, and had completely missed the approach of these forces. All other reconnaisance agencies had similarly failed in their functions. Only the extremely slow Allied advance in the first few days spared the German army in Italy a desparate crisis.

The bridgehead was contained by units rushed in from many different divisions, including emergency units of the Home Army (HEIMATHEER), which were used here for the first time. HITLER immediately took every possible measure for removing the bridgehead by counterattack. HITLER planned to use the same forces that were to eliminate the bridgehead, for an attack on the enemy's main position, with the object of rolling up their west flank. Gen VON MACKENSEN was given command of Army High Command 14, which opposed the bridgehead.

HITLER himself conducted an investigation into the causes for the failure of this counterattack (end of Feb, beginning of Mar 1944?). He person-

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ally questioned the officers of all ranks and all branches of service, who had participated in the action. As a result, he credited the Allies' success to their Artillery, which dispite its numerical inferiority, was said to have approximately ten times as much ammunition as the Germans had. Its fire had also been expertly directed by arty observation planes. The latter had been almost undisturbed by the Luftwaffe. Other contributing factors were the fire from the Allied naval guns and the unusually difficult terrain, which restricted tank movement entirely to the roads. Allied air superiority was largely neutralized by carrying out the attack, according to plan, during bad weather with low cloud ceilings. HITLER himself was convinced that another reason for the failure lay in the fact that the plan for the pending German artillery barrage was betrayed during the preliminary zeroing-in operations.

Repeated attempts were made to start new counterattacks before the period of clear weather set in. In the end, the Germans had to content themselves with just harassing the Allied positions as much as possible with long range artillery fire on the port areas with guns that had been brought up for that purpose, and were forced to resort to purely positional warfare.

In consequence of the threat to the western sector, and to the small eastern sector that bordered on the Adriatic, the main line was reinforced by the construction of a defense in depth. The shortages of material for this construction work, and of supplies of all sorts became more and more acute as a result of the increased scale of Allied air attacks on supply lines.

4. THE DRIVE PAST ROME

Allied preparations for an offensive, made in May 1944, were recognised in time by the Germans due to the disappearance of especially experienced units, and their reappearance in the area around NAPLES, and to other signs as well. The intended direction of the attack was still unclear. HITLER expected an attack on the Tyrrhenian coast between the bridgehead at ANZIO and the main positions. But since the entire coastline seemed threatened as far up as LEGHORN and even further north to GENOA, the relatively weak forces had to be spread over a wide area. These forces consisted of only 16 to 20 divisions and these included the ones in Northern Italy and also several newly formed and unprepared units.

When the first attack came from the bridgehead area itself, the movement of reserves proved to have become exceedingly difficult because the Allied air force dominated the whole area. In addition to that, the German commanding officer made errors which rendered the execution of the High Command's orders to hold or even retake ground, impossible. (MACKENSEN was relieved of his command.) The installations in the rear that were to connect the main line with the bridgehead in the vicinity of the Alban, had not been sufficiently prepared to support the efforts that were made to check the Allies' movements past the main line south of ROME.

Out of consideration for ROME, HITLER decided against making a defensive stand at the TIBER River.

During the course of the retreat, vain attempts were made to stem the Allied advance in the area of the central and upper TIBER Valley, by taking advantage of the natural terrain features. HITLER was under the impression that the High Command wanted only to withdraw to the positions in the Apeninos, that had been under construction since the fall of 1943. Only the western section of these defenses were near completion at the time. HITLER took strict measures in the middle of June, which actually succeeded in halting the retreat, and effecting a temporary stabilization of the front on both sides of Lake Trasimeno.

5. ITALY AT THE TIME OF THE NORMANDY INVASION

From this time on, the German line was constantly strengthened, and gave way only in small sectors when extreme enemy pressure was exerted. In

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the meantime further construction of positions in the Apennines was expedited with great urgency.

The retreat to the Apennine line was the result of a voluntary decision that was made when the invasion of Normandy necessitated the removal of units from the Italian theater. The line, which source inspected personally, had a particular weakness that lay in the fact that the terrain along the Adriatic coast was such as to offer little flank protection. The line also had an open flank to the sea. For some incomprehensible reason it was just in this sector that construction had been particularly neglected. Tactical errors made when the line was first occupied, and negligence, proved to be fateful and decisive factors in the future fight for the Apennines.

It should also be mentioned that the activity of the Luftwaffe in the spring and summer of 1944 was limited almost entirely to that of its anti-aircraft units. These units were also called upon for a great deal of anti-tank work. Much to the sorrow of the German commanders and ground troops, there were practically no airplanes at all available to them in this theater of operations.

The German High Command was well aware of the continuous movement that was taking place, of crack troops and units experienced in amphibious operations, from the Italian theater of operations to the British Isles. The assembly areas of American and French units in North Africa, and the assembly areas of English, Polish and Greek units in Egypt were also observed as carefully as possible.

B. THE BATTLE OF FRANCE

1. GENERAL GERMAN DEFENSIVE PREPARATIONS

a) Construction of Coastal Defenses

The creation of a second front, which to the German mind was synonymous with an invasion in the West, had long been considered one of the enemy capabilities. In the previous discussion of Russia, reference has already been made to the serious expectation that an invasion would be attempted in the late summer of 1943. This feeling undoubtedly had some basis in the attack on DIEPPE. Some work had been begun on coastal defenses long before that time, but with the exception of the installation of heavy and super-heavy artillery in the CALAIS area, it had been carried on rather lackadaisically. From the summer of 1943 on, work on fortifications was expanded steadily. The greatest emphasis was put on the strip of coast between the mouths of the SOMME and SEINE rivers. HITLER also placed great value on fortifying the channel islands to their utmost.

b) Disposition of Troops

The number of divisions in the West was kept, from this time on, at about 50. These included newly formed divisions, this being a favorite area for setting up of new divisions; there were also divisions that had been brought from the East to recuperate, as well as so-called reserve divisions that were nothing more than slightly better-equipped replacement divisions of the home army. An appreciable increase in these forces did not even take place after the previously described total occupation of France, in Nov 1942. On the contrary, the quality of the troops was steadily diminished by repeated removals of officers "fit for duty on the Eastern Front", and of younger soldiers, for committment on the Eastern front and in the Balkans. At the same time the reserve divisions were being subjected to a steady change in personnel, as a result of the policy of transferring their trained men to combat outfits. For another thing, ever since the fall of France a shortage of materiel had existed there. For example, there was almost no army artillery at all in France as late as 1943. There were also large areas in the interior of France that were almost entirely unoccupied.

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The absence of Allied landing attempts justified the risks that had been taken. Furthermore there had been no positive indications during the period of there being any landings imminent.

In the fall of 1943, it was recognised that in all probability, landing attempts could be expected as early in the following year as weather conditions would permit, and drastic countermeasures were then begun.

The command of the armies in the northern sector, from the Netherlands to the mouth of the LOIRE River, was given to Field Marshal ROMMEL. ROMMEL was subordinate to the Supreme Commander in the West, at that time, RUNDSTEDT. Later on, another high command was created under Gen BLASKOWITZ, and under it were the two armies in Southern France (the Biscayan and Mediterranean coasts).

The number of divisions was increased to 60, and included eight armored divisions. The latter were made up to some extent of partially or completely burned out units that had come back from the East, or of divisions which were newly formed. A timetable was also worked out, according to which forces were to be shifted, when needed, from other fronts. A similar schedule was arranged for areas that were considered to be under threat of invasion in other theaters.

The quality and quantity of the troops' equipment was improved, especially with regard to anti-tank weapons. In addition some reserve troops were placed at the Supreme Commanders' disposition.

The Luftwaffe remained rather weak, but was ordered to make strong formations available for use against possible landings.

Under Field Marshal ROMMEL's supervision, and as a result of his great diligence, the work on the coastal defenses took rapid strides. Water barriers were constructed, various steps were taken to make the rear areas secure against airborne landings, and installations were constructed in the rear of the coastal defenses to provide a greater depth in the defenses.

c) Differences of Opinion

There were differences of opinion mainly on two issues. HITLER thought it necessary to place all artillery in casemates which would cover the pieces on all sides and on top with three meter thick concrete, to protect them from destruction from the air. He wanted to do this in spite of the fact that it resulted in limiting the field of fire to that covered by a 60 degree angle. The army leaders only submitted to this demand with a great deal of resistance. The other controversial point was in regard to the disposition of reserves.

ROMMEL wanted to keep as many troops near the coast as possible, because he feared that enemy air power would interfere with the bringing up of reserves if any extended troop movements were involved. The High Command in the West maintained that the actual point at which landing would be attempted was bound to remain an uncertainty up until the very last minute, and that in view of the weakness of the reserves available, they had to be held at a distance. The solution of the problem was finally such as to place the infantry and several armored divisions at ROMMEL's disposal according to his own principles, while the remaining armored divisions were made into an army reserve which was held in readiness in the vicinity of PARIS, approximately between LILLE and CHARTRES.

Rear areas were reconnoitered for positions of operational significance, and the SOMME-MARNE-SAONE line was looked upon, as a result of the survey, as offering the most advantages.

For a long time there was a great deal of uncertainty on the German side concerning the possible date and direction of thrust of the expected

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Allied landings. The German defensive preparations were supposed to have been completed by 15 Feb 1944. But they were continuously interrupted by withdrawals of troops for the east, and the required equipment and personnel were only very inadequately furnished by the army. Here too, there was evidence of the need for a unified supreme command. ZEITZLER had the final say about the disposition of personnel, and used them mainly, in compliance with demands, for committment on the Eastern Front. The fact is, at the beginning of the invasion, the number of troops that had been declared necessary for defense had not been reached.

Observations made by the Germans of the build-up to the middle of Feb 1944 of English and American forces on the British Isles indicated that the Allied preparations were still incomplete. The Germans also had the conviction, which was later borne out by events, that the actual invasion would be preceded by powerful air attacks against communications in the West, and after that, against defensive positions on the coast and even against troop shelters. This pattern did not begin to resolve itself in this way until very much later.

The disposition of the troops in England showed in the meantime, that the fear of an invasion directed against Norway or Denmark, which HITLER had entertained for years, could be discounted. The build-up was obviously concentrating more and more in Southern England. The Germans had reason to believe that there were strong English forces in Southeast England, and a strong force consisting mainly of Americans in the central and western portion of the southern coast, totalling about 70 to 80 divisions. These included eight parachute and airborne divisions.

2. ON THE EVE OF INVASION

As soon as HITLER believed he had recognized the danger, a series of extra measures were taken primarily for the defense of Normandy, and also of Brittany. Some two or three more divisions were brought in from other sectors, or from the Reich, and all troops there were supplied with extra weapons, mainly of a type useful in combatting airborne troops. The Supreme Commander in the West added some refinements to the plans that had been made for moving in troops from less endangered areas. Field Marshal ROMMEL, in accordance with his principles, moved the reserves at his command even closer to the threatened sectors, mainly into the region of the mouths of the DIVES and ORNE rivers.

The object of all plans made by the Supreme Command was to repel the Allied landing forces at the MLR, that is, right on the coast, and this had been impressed upon every single German soldier. At points at which this did not succeed the reserves were to counterattack and throw the Allies back into the sea. It was well recognized that Germany's whole strategic position, and even the outcome of the war, depended upon the success of this plan. Here the attack repelled, it could not be attempted again very soon, if at all. Germany would have its reserves freed for use against the ever-growing threat in the East.

3. THE INVASION

a) Initial Landing, a Surprise

The hour of the attack in the night of the 5th and 6th of June came as a momentary surprise. Field Marshal ROMMEL was just on his way to HITLER's headquarters. Most of the troops in the sector attacked had been taken out of their positions for construction work on defense installations, despite having been in a state of high alert for some time.

The first messages relating to the action began to arrive at HITLER's headquarters at five o'clock on the morning of 6 June. It was not until several hours later that the messages made it clear that the landings were part of the full scale operations that had been so long awaited. Even before the whole picture had resolved itself quite clearly, the army reserve forces,

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amounting to four armored divisions, were released for commitment in Normandy. In doing this the Supreme Commander in the West believed that the bulk of these forces could be counted upon to arrive for a counterattack between the ORNE and VIRE rivers on the evening of the same day.

The other plans that had been provided for, in the previously arranged schedule, were not executed fully at that time for lack of certainty about the possibility of there being further landings made at other points. It was thought that the latter might still be attempted soon, especially in the area between the SOMME and SEINE rivers. Another factor that interfered with the execution of a part of the troop movements scheduled, was the extent of the destruction which Allied air forces had wreaked upon the communication system. Among other things, every single bridge over the SEINE below PARIS had been rendered at least partially impassable. The transfer of the Luftwaffe was begun as planned, but also took longer than scheduled.

(Source was called away for the next few days to make a trip to Italy, and was out of touch with events. The story goes on after his return.)

b) Superior Allied Air Forces

The situation at this time had one outstanding feature, and that lay in the overwhelming effect of the Allied air forces on the Germans' efforts to bring their reserves up to the front. Not only was the movement of the troops retarded, but in some cases they suffered great losses on the way. As a result, the concerted counterattack that had been planned, never got started. It took the armored units three to four times as long as expected to arrive, and when they got there they had to be immediately committed to back up the faltering line.

The plans of the supreme command at this stage emphasized the necessity of preventing a breakthrough in a westerly direction from the mouth of the VIRE River, that would result in the COTENTIN Peninsula being cut off. They also stressed efforts to eliminate the bridgehead east of the ORNE River, as well as the release of the armored units from the line, so that the planned counter-offensive could at least be mounted and the danger removed.

Before the armored divisions could be withdrawn, infantry and parachute divisions had to arrive from other areas. During this waiting period, several attempts were made to wipe out the bridgehead east of the ORNE, but naval shelling frustrated each one. Then the Allies succeeded in cutting off the COTENTIN Peninsula. An especially unfavorable consequence of the action was brought about by the German troops' giving way in a southerly direction instead of moving toward the fortified port of CHERBOURG.

The German armored counterattack was originally supposed to strike from the general area of Central Normandy, in a more or less northeasterly direction and tear open the enemy lines as far as the coast. As the situation became more and more unfavorable, HITLER decided that the counterthrust should be made at the rear of the Allied forces that were driving for CHERBOURG. The situation was still such that no definite date could be set for this attack. All the higher army men objected to the plan because they considered it impossible to shift sufficient men and equipment into Normandy in face of the Allies' air supremacy.

c) Dwindling German Reserves

CHERBOURG fell quickly because it had been undermanned and sufficient reinforcements could no longer be brought in by sea or air. The strength of the invading forces grew at an accelerated rate, not so much because of the Allies' power but because of the Luftwaffe's weakness. The consequence of the rapid growth of the Allied power was that all hope of making a counterattack had to be abandoned, and this in spite of the fact that two more German armored divisions had been brought in from the East (the 9 and 10 Pz Dvs). The committed German forces were gradually cut down without any chance of with-

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Ref No SAIC/FIR/29
21 Aug 45

drawing what remained for rest, or even replacing the losses sustained. The remaining reserves upon which the Supreme Commander in the West was drawing, were gradually being exhausted and the troops were arriving at an exceedingly slow pace. Troops were being taken more and more from the coast of Southern France and from the channel coast, in spite of the fact that there was still a strong possibility of additional Allied landings being attempted in both sectors.

In the meantime the German Seventh Army, under Gen DOLLMANN, and later under Gen HAUSER, had the task of containing the enemy bridgehead, and exerting pressure on both flanks in order to "force the enemy to the ground". Strategic operations that might be undertaken from this point were still not given any consideration. When such questions were brought up, as they were at times by men from the front, HITLER simply rejected them with the remark that if it were impossible to hold the present short line, any other line in France was bound to be longer and the success in holding it was correspondingly more unpredictable. At this time HITLER obviously neglected to recall his oft-quoted opinion that a static type of warfare in Normandy, in which the western powers would set the pace when it came to the scale of the battle, would over-tax Germany's ability to furnish the necessary supplies.

The German right flank managed to score repeated defensive successes against the British troops in the CAEN area. The German left wing however had never had sufficient strength, and broke with astonishing rapidity when attacked by troops that had been released by the fall of CHERBOURG. HITLER's suspicion of the local command was aroused by the events which led at that time to the Allies temporarily cutting off a large number of German forces. The details of what happened were apparently never fully cleared up. Field Marshal von KLUGE told source that HAUSER had made an error in generalship.

4. THE ALLIED DRIVE INLAND

Not until the American breakthrough at AVRANCHES had been accomplished, did the men at the German headquarters begin to realize the seriousness of its implications. The military governor of France was then immediately given orders to construct defenses along the previously reconnoitered SOMME-MARNE-SAONE line, with the aid of the ORGANISATION TODT. Source was ordered by HITLER to make a flight to the West Front to get a clear idea of the situation through personal contact with the commanders, and by personal inspection of the front. At that time source was expressly forbidden to make any mention to the Supreme Commander of the West of any possible large scale withdrawal of the armies in the West, because the latter's attention was supposed to be directed forward, and in no other direction.

On the morning of 3 or 4 Aug orders came from HITLER's headquarters to gather a striking force as quickly as possible on the left flank of the Normandy front, and by making an attack toward the west, in the direction of AVRANCHES, to close the gap that had been formed there.

Field Marshal VON KLUGE considered it wise to carry out this thrust as soon as possible, because he feared that any further advance on the part of the Americans on his flank and to his rear would deprive him of the chance of making the thrust. This was quite aside from the danger that any such enemy advance would bring to the bulk of the German western armies assembled in Normandy. While HITLER's headquarters had warned against making the attack with insufficient forces, VON KLUGE figured that he could get the few forces available into position behind the left wing in two days. The attack which started on 6 or 7 Aug achieved no more than a few initial local gains and earned VON KLUGE a severe reprimand from HITLER.

The Supreme Commander in the West then received an order to reestablish the front approximately along the line from which the unsuccessful attack had been made, and to regroup the forces for an attack in a southeasterly direction, into the flank of the American motorized troops that had made a further advance toward MANTES. This move was never made because of the rapid changes that took

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place in the situation, and which now included even the east wing of the Normandy front. When he had received the order, VON KLUGE had stated that it would take at least a few days to get the attack started, but he was again severely reprimanded for the failure.

The remnants of the German army that withdrew from this collapse to the SEINE River were meant to make only a temporary stand there because the lower SEINE valley was admittedly very poorly adapted for defense. On the other hand, HITLER demanded that all possible resistance be made to deny the Allies access to the city of PARIS, with its numerous SEINE bridges and its radiating road net.

To the north, the 15th German Army was supposed to place strong occupying forces in the fortified cities of CALAIS and DUNKIRK, and then withdraw the rest of its troops to the SOMME River. At this time the first motorized units of the First German Army, retreating from the Biscay coast, began to reach the area south of PARIS. The remaining troops from the Biscay area were retreating laboriously on foot, trying hard to hold together despite repeated enemy stabs. These troops, and those of the Nineteenth German Army which were giving way before the Allied landing forces in Southern France, were supposed to make up the southern wing of the new front. The only element in this whole wing that had any strength to speak of was to be an armored division which was on its way from Italy. Strong forces were ordered to be left in all the coastal ports in order to deny their use to the Allies as long as possible.

The events which followed cascaded over one another in rapid succession. The SOMME-MARNE line held for only a short time and then collapsed, and the quick drive to ANTWERP yielded the Allies one of Europe's foremost harbors.

5. GERMAN EFFORTS TO PREVENT A COMPLETE ROUT

By committing a strong force of the so called Paratroop Army, the Germans were able to retard the Allies progress in several places especially along the Albert Canal; in the Ardennes; the western Luxemburg frontier and the old French fortifications at METZ and to the south. The existence of this army, a part of the Luftwaffe, had been unknown to the Army Supreme Command until this time. It had become clear though, that only the SIEGFRIED Line could be counted upon to give sufficient support to enable the central portion of the front to be reconstituted. In the north there was some hope of being able to make a stand either along the ALBERT Canal, or at least along the large river barriers in the southern Netherlands.

In the southern sector, efforts were mainly directed toward the establishment of contact between the First and Fifteenth German armies, and the First was being constantly urged to greater speed in its move. HITLER wanted these forces to make a diversionary attack in a northwesterly direction, with the aid of a large armored force of four to six armored divisions. One of these armored divisions was the 2 Pz Div, now on the move from Italy, and others were in part still engaged at the Western Front and still had to be withdrawn and refitted before they could be used. To the best of source's knowledge no such attack was ever carried out.

The WESTWALL, or Siegfried Line, had not been thought of in connection with military planning for some time. On the contrary, it had been stripped of armament, obstructions, communication equipment, etc. It was being used to a large extent to shelter bombed-out families, and sections of the subterranean installations had been given over for use by the war industries, as had those of the Maginot Line. Indicative of the situation was the fact that the High Command had to make efforts at this crucial hour, to find out where the keys to the various installations were kept, and even to learn what agencies were still in existence that could be considered of some use in matters pertaining to the Siegfried Line.

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Ref No SAIC/FIR/29
21 Aug 45

While measures were being taken toward reestablishing the utility of the Siegried Line as a defensive fortification, the organization of new units, mainly immobile fortress troops, was undertaken with great haste. These units were mainly trained in the use of anti-tank weapons and artillery.

(Source left his position at this time, on his doctor's orders.)

C. THE CAMPAIGN IN SOUTHERN FRANCE

1. GERMAN DEFENSIVE PREPARATIONS

The defense of the coast of Southern France was taken into consideration and became the subject of military memoranda from HITLER for the first time when the landings in North Africa in Nov 42 made it appear that this area was also threatened. Mention has been made of the fact that this action caused HITLER's decision to order the occupation of all France, including the Mediterranean coast. An exception was made at first of TOULON, in consideration for the collaboration of the French Fleet, and this city was left in trusted hands for its own defense. Shortly thereafter TOULON was also occupied by German troops because HITLER did not trust the assurances of the French Government, and the attitutde of the French Navy in TOULON. He justifiably considered this place particularly tempting for an Allied landing attempt.

When the rapid formation of French troops was observed in North Africa afters its occupation by the Allies, and especially when the collapse of TUNIS freed strong forces for action elsewhere, the threat against the coast of Southern France became still greater. This threat was considered partly in relationship with the subsequent developments in Italy, and partly with the invasion expected from the British Isles on the Atlantic coast. The latter was based on the fact that as far as was made known, the troops in North Africa were also under the command of General EISENHOWER and were therefore obviously expected to be used in coordination with the latter's main forces in England.

The appearance of the first French troops in Italy in the fall of 43 or the winter of 43/44, was looked upon as a factor which temporarily lessened the threat against the coast of Southern France, because those troops, which would obviously be the most useful ones in a landing there, were apparently being committed in Italy to give them a chance to prove themselves in combat. The situation at this time, furthermore, seemed increasingly to favor the view that the Allies first wanted to assure themselves of a well established base in CORSICA.

Early preparations of this sort on the island of CORSICA had been observed, and included the arrival of first one, and then, later, another French division, as well as the construction of extensive air bases. However, up until the actual landings were made in Southern France in the summer of 1944, the uncertainty remained as to whether the landings in the northwestern area of the Mediterranean would be directed, with limited objectives, at the deep flank of the German defenses, (so-called "skip landings"), or be directed at the coast near LEGHORN west of GENOA, or on the other hand, be made on the coast of Southern France. The wide distribution of the Allied air bases increased the Germans' uncertainty regarding the possible point at which Allied landings could be expected. On the coast of Southern France the innumerable bays in the mountainous eastern section, and also the RHONE Delta were often mentioned as possible landing points. There was a good deal of concern over the CANAL DU MIDI, which formed the entrance to the GARRONE Valley. This terrain seemed to offer favorable possibilities for a simultaneous attack from the mouth of the GIRONDE River on the Biscay coast. Source's own opinion, made as a result of a tour of inspection in May 44, was that TOULON, jutting out to the south as it does, and with its two exposed flanks, would be especially inviting to the invaders.

The German situation on the French Mediterranean coast had always been characterized by a great shortage of forces of all sorts. It has already been pointed out what the occupation of central and southern France was carried out by drawing on the already insufficient forces which the Supreme Commander in

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the West had on hand. The Italians furnished only two divisions on that occasion. Divisional sectors were extended up to 120 km and more. When Italy's surrender became a possibility, about six German divisions were temporarily assembled in the German part of the coastal sector in the summer of 43. The subsequent withdrawal of the Italians and the departure of the Germans for Italy again weakened Southern coastal defenses. The Germans improved their position somewhat by putting in many battalions of Russian volunteers, but HITLER always regarded these troops as undependable.

The increasing danger of invasion from the spring of 44 on, lead among other things to the formation of new divisions for the defense of this coast. In this way it became possible to have eight German divisions in the large coastal arc between PERPIGNAN and MENTONE. Behind these was an armored division that had arrived from the East, and was being reconstituted in the area on both sides of the lower RHONE River. These forces were in no way able to furnish an adequate defense of the 500 km stretch of coast, were even less capable of a defense in depth of this coastal area. When when the invasion began in Normandy, it became necessary to withdraw forces from this southern coast in spite of the growing threat of landings being attempted there also. These forces were mostly taken from the German right wing, that is from PERPIGNAN to the vicinity of the west bank of the RHONE River, and included almost all of the regular army infantry and a goodly portion of the already meagre heavy artillery. Some replacement was attempted with home army units and with battle-weary units from Normandy, but even this was only carried out to a limited extent.

The command of this sector was at first in the hands of a provisional emergency staff, and not until 1945 was the organization of an army high command undertaken. The latter's headquarters were in AVIGNON and it was headed by Lt Gen VON SODENSTERN. It consisted of three corps, two of which were just make-shifts that had originally been intended only for occupational duties.

The fortifications on this coast, with the possible exception of those south of the GIRONDE River, had a much lower priority on material than did those on the Atlantic coast. The troops themselves could do little construction work, and the local population in this thinly settled area could only be used for extensive building projects in the vicinity of the two larger cities. In spite of this, a satisfying number of strongpoints and other installations had been completed in the most important places by the spring of 1944. Work was continued even after this time, as it was on the Atlantic coast, on water and land barriers. Some light field fortifications were even erected in the rear of centers of resistance to provide protection from the rear. However, the desired depth and density of defenses in this fortified zone was not attained.

The Luftwaffe had extensive installations in Southern France which it had used for attacks that had been occasionally carried out on enemy convoys in the Mediterranean. In the spring of 1944, three months before the invasion, these bases were already practically deserted. Even reconnaisance flights had been cut to such an extent that they could not be counted upon to spot the approach of an enemy landing fleet in proper time.

2. ALLIED LANDINGS IN SOUTHERN FRANCE

When the French and Americans finally landed in Southern France on 15 Aug 44, the coast was held by a broadly extended chain of defensive points of which less could be expected than ever in the way of a successful defense. The Allied airborne landings behind the German east wing made matters worse for the Germans by cutting their communications there with the rear, and interfering with the functions of their high command. This condition, and the developments in Normandy, lead HITLER to decide, only a few days after the landings were made, to withdraw from Southern France.

HITLER ordered the weaker forces to withdraw first from the west wing and to move toward the lower RHONE River. The troops in the RHONE delta were to join the former at intervals. The east wing, which had not been

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Ref No SAIC/FIR/29
21 Aug 45

attacked, was withdrawn at the same time. The east wing consisted of a reserve division that had had the mission of sealing off the French-Italian border in the Maritme Alps. The rear guard action for the retreat was assigned to two to three infantry divisions and one armored division, and had to be directed at the time only against Allied pressure being exerted in a northeasterly direction. These same divisions also had to furnish the troops that were to be left behind as occupational forces in the cities of TOULON and MARSEILLES.

The retreat from Southern France was carried out very much according to plan. The feat of holding open the roads in the RHONE Valley and the connections thereto was considered by the Germans as a particular success. There was some heavy fighting around LYON that cost the Germans appreciable losses, but there too they were able to break off and withdraw the main body of their forces. The German forces began to arrive at their appointed destination in the area around BESANCON in the first days of Sep 1944.

21 August 1945.

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SEVENTH ARMY INTERROGATION CENTER
APO 758

A SUMMARY OF THE GERMAN CAMPAIGNS 1939 - SEP 43
BY GEN D ART (LT GEN) WALTER WARLIMONT
Final Interrogation Report

(Note: This report should be read in conjunction with Report Ref No SAIC/FIR/3, 2 Jul 45).

SOURCE

WARLIMONT, Walter, GEN D ART (Lt Gen), Deputy Chief of the Armed Forces Operations Staff (WEHRMACHTSFUEHRUNGSSTAB) and Chief of Joint Planning Staff. For reasons which are not entirely clear source appeared to be less outspoken and objective in discussing the plans for the various German campaigns than in reviewing the difficulties of the OKW (SAIC/FIR/3). For this reason the information contained in this report has been given a lower rating than that of the previous report. The following text is presented as closely as possible in source's own words, although certain contradictory statements have been omitted.

Rating: C-3 Date of Information: See Text Interrogator: G.W.G.

1. POLAND

a. PRELIMINARIES

When the negotiations of the Polish Foreign Minister in London brought about the Anglo-Polish treaty (late March or early April 39),"it became evident that a peaceful solution was impossible.

It was planned to have all German preparations for the invasion completed by the end of August. The final order for attack was issued between 15 and 20 Aug 39,after the signing of the treaty with Soviet Russia. The start was ordered for 25 Aug, but on the afternoon of 24 Aug it was postponed until 1 Sep in order to await the results of new diplomatic negotiations with the English ambassador.

b. PLAN OF ATTACK

The attack was planned with a strong south wing, including a concentration of Panzer divs, striking from Silesia in a northeasterly direction. The northern, enveloping wing, driving from East Prussia, was strongly reinforced, in accordance with an order of the FUEHRER which overruled the plans of OKH, and it was committed en masse east of the Vistula. Weaker forces, in the center, were to move from eastern Pomerania through the TUCHELER HEIDE and past GRAUDENZ. Capture of DANZIG was a special task to be executed with commitment of part of the LUFTWAFFE. About 40 divs were employed in the operation, including five Pz divs. The ten remaining German divs were deployed in the Westwall, with the main strength between Luxembourg and Switzerland. The operation was at first planned without any special mobilization, as in the case of the occupation of PRAGUE and the Bohemian-Moravian Protectorate. But during the period between 25 Aug and 1 Sep very important orders for mobilization were put through under pressure from OKH, because the concentration was not considered strong enough.

c. OPERATIONS

At first it was not clear why the main Polish forces were not encountered. But later, BLASKOWITZ's army, in this drive through

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POZNAN towards WARSAW, ran into a serious crisis when the northern flank was attacked by these forces. The north wing was held up longer than expected by the Polish fortresses on both sides of LOMZA. The penetration of the city of WARSAW by the Army of the South could only be accomplished after strong arty and air bombardment, in spite of the fact that armored troops had been at the outskirts of the city for some time.

Military agreements had been made with Soviet Russia by the Foreign Secretary, the terms of which were not known to the OKW. This necessitated the redeployment and withdrawal of German troops when southern Russian forces were encountered. It led to some friction with the Russians.

2. FRANCE

a. PRELIMINARIES

Source was in BERLIN towards the end of Sep 39 , after the first hints regarding an invasion of France had been dropped at the Hq in ZOPPOT. Preparations were supposed to be completed by the Chief of the Army, orders were given to alert units on 12 Nov. The Army Chief was repeatedly interrupted by HITLER during the address, in which he declared his opposition to starting the campaign at that time. Owing to bad weather the order of 5 Nov was postponed for two days, then until mid-Dec, then again for three days, and later for five more. Finally the campaign was postponed indefinitely. With improved weather conditions it was again proposed to alert the units in the first half of Jan 40, but the severe winter caused a postponement until spring. Final order was given on about 7 May 40 for deployment on 10 May, but the code word was not given until 9 May.

b. PLAN OF ATTACK

A report had been prepared at OKH in the autumn of 1939 which stated the conclusion that it would be altogether impossible for Germany , in her prevailing military condition, to launch an attack upon France. Because of this report there was considerable confusion when the order to attack was received. Deployment of the Army was along the lines of 1914, but without an announced main point of attack. Moreover the southern Netherlands were included in the proposed invasion corridor and area of occupation in order to get advanced positions for anti-aircraft defense of the RUHR. There were manifold changes during the course of the period of waiting in Jan and Feb 40 , and the FUEHRER's idea of a breakthrough in the middle through the ARDENNES to the Channel and the rolling up of both flanks developed more and more and became the basis of the plan of operations.

Special consideration was given to the employment of airborne troops, first for the occupation of the Belgian Redoubt area around GHENT, and later (following the loss of some orders concerning this plan when a plane made a forced landing on Belgian soil) for the prompt seizure of the viaducts and Fort EBEN-EMAEL on the Albert Canal, in order to secure the north-south lines of communications.

There were about 80 divs, many of them newly organized, including approx 10-15 Pz and mtz divs, most of which were in the center (Army Group RUNDSTEDT).

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Ref No SAIC/FIR/11
24 Jul 45

c. OPERATIONS

The first part of the operations was almost exactly according to plan, until the armd forces were halted by HITLER's orders in the PAS DE CALAIS area because of the unfavorable terrain, just at the moment when the OKH was anticipating great results from a breakthrough of the mtz forces around DUNKIRK. The effectiveness of the LUFTWAFFE against the British embarkation at DUNKIRK had been greatly overestimated. However, a change of direction towards the SOMME and the AISNE, as part of the second phase of the campaign, was effected in a very short space of time. The goal, the breaking of the MAGINOT line from the rear, was accomplished in conjunction with attacks across the Upper RHINE. It had been planned to have one Italian Army participating in this operation, but this was dropped because of objections by Italy. The Italian attack in the Alps did nothing to relieve the burden.

3. DENMARK

The decision to occupy Denmark resulted from studies concerning the invasion of Norway. Its main purpose was to shorten the lines of seaborne communications and to build a secure communications bridgehead to Norway. A very weak force was employed, under command of KAUPISCH. The main force was to cross the German border into Jutland, 9 Apr 40, while one battle group of less than regt strength was transported to COPENHAGEN by passenger liner the same day, taking possession of the capital. There was extraordinarily little resistance. Military authorities were able to negotiate with the King and the govt, and the country was peacefully occupied the same day.

Following the occupation it was found that the considerations which led to the invasion of Denmark had been correctly analyzed. The AALBORG airfield and the harbor at SKAGEN were of great help in the deployment of troops for the Norwegian campaign. No serious difficulties were encountered in Denmark until the deterioration of the German military situation in the spring of 1944.

4. NORWAY

a. PRELIMINARIES

At the end of Jan or early in Feb 40, the Germans were alerted "because of anticipated British landings in Norway, especially near STAVANGER, and because of reports by QUISLING of English air bases in southern Norway". QUISLING came to BERLIN many times to give such information.

It was planned to invade Norway at the earliest possible date, but the invasion had to be postponed until 9 Apr because the Baltic Sea remained frozen.

b. PLAN OF ATTACK

The plans were largely improvised and were based on inadequate maps. Studies, begun in Jan 40, led to the conclusion that the most important harbors and airports should be seized by surprise from both sea and air. Heavy weapons and other necessities were to be transported to Norwegian harbors camouflaged as normal traffic. There were about ten divs in all, of which only the 2 Mt and 3 Mt were not recently organized. Also participating were strong forces of the LUFTWAFFE, including several airborne units, and almost the entire German fleet.

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c. OPERATIONS

The plans were discovered when a German supply ship foundered on 8 Apr and the survivors came ashore on the Norwegian coast. For this reason there was unexpected resistance in the OSLO Fjord, with heavy losses to the fleet. The surprisingly fast countermeasures on the part of the English, their landings in NAMSOS and ANDALSNES, caused great worry, as did the loss of practically all the ships with heavy weapons, which had preceded the main force. Because of that, and because of the destruction of almost the entire destroyer flotilla at NARVIK, the situation remained critical for several weeks. Again and again an overland retreat from NARVIK towards TRONDHEIM was discussed, and such a move remained under consideration until the British withdrawal and the invasion of France.

As in the case of Denmark, the Germans tried to negotiate with king and govt, in the hope of achieving a bloodless occupation. These negotiations, which were carried on in HITLER's name by the German minister in OSLO (Von RENTHE-FINCK?), failed chiefly because of the German demand for the inclusion of QUISLING in the govt.

5. PLANS FOR INVASION OF THE BRITISH ISLES: (OPERATION "SEELOEWE") ("SEA LION")

a. CONSIDERATIONS

The idea of an invasion of Great Britain was given serious consideration in Jul 40. From the start the deliberations were marked by uncertainty and lack of decision. Even with the failure of renewed proposals for the conclusion of a peace with England, after the REICHSTAG speech of 19 Jul , all plans and preparations had more the aspect of a study of a theoretical problem than of a plan for an actual operation. Execution of the plan was proposed for autumn of 1940, in Sep or, at latest, early Oct, but no order was ever actually issued except for the employment of the LUFTWAFFE.

b. PLAN OF ATTACK

Source states that such plans as existed were mere improvisations. The invasion was to be preceded by an aerial war against the British Air Force, and the fleet was not to be alerted until British anti-aircraft installations had been neutralized. OKH insisted upon the strongest possible deployment of initial forces, with at least two, and if possible three, invasion groups, employing in all about 30 divisions in several echelons. The ultimate objective was LONDON. The fleet was considered strong enough to handle an invasion of southeast England only.

c. ABANDONMENT OF PLAN

The plan was given up because the aerial warfare did not succeed "because of poor weather". An additional deterrant was HITLER's constant fear that the sinking of troopships would result in a great loss of personnel.

6. AFRICA

a. CONSIDERATIONS

Because of the serious defeat of the Italian troops under Marshal GRAZIANI in the western Egyptian desert, in the autumn of 1940, it was decided to send German forces to Africa. Source claims that this decision was made as much for political as for strategic reasons - a desire to strengthen the partner who had fought France with so little success, and to support MUSSOLINI against the Italian Royalist faction.

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Ref No SAIC/FIR/11
24 Jul 45

b. PLANS FOR EMPLOYMENT OF GERMAN TROOPS

At first it was planned to send one German Pz div to Africa. Gen FREIHERR von FUNCK went ahead to make a preliminary survey of the situation, and he returned with the impression that the Italian military leaders in North Africa were coolly disposed to the employment of German troops in the theater. The first German troops arrived at TRIPOLI in early Jan 41, under the command of ROMMEL. Despite their small forces they were soon able to assume the leadership in the battles which followed.

c. OPERATIONS

The outstanding part played by German troops in North Africa resulted in the German High Command taking an ever increasing and decisive leadership in the theater, although this was contrary to the original agreement reached with Italy. Gen VON RINTELEN, the Military Attache at ROME, was appointed direct representative of the German High Command to the Italian High Command, in order to promote this policy. Later, in the autumn of 1941 and winter of 1942, when strong forces of the LUFTWAFFE were employed, Field Marshal KESSELRING, as commander of the 2 Air Fleet, gradually took over this function. Gen CAVALLERO, the Italian Chief of the Supreme Command, was always receptive to this policy, but when he was succeeded by Gen AMBROSIO, early in 1943, more and more difficulties arose as the result of the deteriorating Axis military position.

In view of the fluctuating character of the North African war, it was the primary consideration of the German command to hold the eastern border of Cyrenaica. In the spring of 1942, when it was possible to occupy TOBRUK and to drive the British from the rest of Tripolitania, it was the German High Command which, contrary to Italian plans, instigated the offensive operations against the lower NILE which led to EL ALAMEIN. Meanwhile the German force had been increased to four divs.

At this time, and through the late summer of 1942, there were ever increasing supply difficulties, due mainly to the sinking of many ships and to a long supply route with insufficient transport facilities. This situation was temporarily alleviated by the powerful air attacks on Malta. It was even planned to make an airborne and seaborne invasion of Malta, but the plan was shelved in favor of the invasion of Crete, which occurred as an aftermath of the Balkan campaign. The increasing British resistance at ALAMEIN forced the suspension of the Malta attacks, and attempts to employ the Italian Fleet for greater protection of supply ships failed, as did HITLER's plan to use fast warships for supply purposes. Even MUSSOLINI refused to consider such demands. German shipping in the Mediterranean, which had proved excellent in ferrying troops to Africa, was at this time almost entirely at the bottom of the sea.

ROMMEL's eastward attack from his position at ALAMEIN in Oct 42 had as its objective the lower NILE. It was further intended that, after a successful conclusion of the fighting in the Caucasus, ROMMEL's forces would drive to the Persian Gulf in a coordinated operation with the troops pushing south from Transcaucasia. When the British counterattacked, ROMMEL was ordered to hold ALAMEIN at all costs - an order which, after the beginning of the British attack, was followed on 1 Nov by a strong personal appeal from HITLER to the same effect. However, after the line had been breached at several points, ROMMEL decided to give up the ALAMEIN position regardless of orders. The message announcing his decision did not

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reach FUEHRER Hq until the morning of 2 Nov, several hours after the retreat had started. It was ROMMEL's intention first to make a stand at MERSA-MATRUH, and later at the Egyptian-Libyan border. Both of these attempts failed. Efforts to increase supplies via Greece and Crete also met with failure due to the poor condition of the Balkan railroads, especially south of SALONIKA, and to the amount of shipping space and convoy vessels required by use of this eastern Mediterranean supply route. Meanwhile there appeared a new threat to the line of retreat when the Anglo-American landings were made in French North Africa, 8 Nov 42.

7. THE BALKANS

a. CONSIDERATIONS

The decision to participate in a Balkan campaign was made only after the Italians had demonstrated their utter impotence in Greece. This Italian operation had not been anticipated in any German plans, and the Italians had never announced their intention of making the invasion. The Italian High Command denied having such intentions at the time of the meeting between PETAIN and HITLER in Aug 40. At that time HITLER ordered his special train to detour to FLORENCE so that he could learn the Italian plans from MUSSOLINI himself. He arrived at FLORENCE in the late forenoon of the day of the invasion; the Italians had entered Greece from Albania early that same morning. (This was repeat performance of the Italian attitude regarding the invasion of Albania in the spring of 1939. At that time the Italians, under the leadership of Gen PARIANI, broke off the first German-Italian military talks at INNSBRUCK without explanation. When Field Marshal KEITEL, leader of the German delegation, arrived in BERLIN, Gen MARRAS, the Italian Military Attache, told him that Italian troops would occupy Albania the following morning.)

HITLER tried to persuade Italy to abandon this independent operation in favor of an invasion of Crete, but the attempt failed. Several months later, around Christmas time, the question of employment of German forces in the operation arose for the first time. It came as a result of a military observation trip by Gen ZEITZLER, occasioned by the poor showing of the Italians in the Albanian - Greek campaign, during which he reconnoitered the passes in the Balkan and Rhodope mountains.

According to source, HITLER always "deeply regretted" that German forces had to be employed in Greece, "because he had such great love for Greek Culture".

b. PLAN OF ATTACK

German participation in the campaign came within the next few months, under the leadership of Field Marshal LIST (Twelfth Army). The move was camouflaged by the sending of strong "military missions" to Rumania. These missions were at the same time charged with preparations for the campaign against Russia. Military forces could not be transported across the DANUBE into Bulgaria at that time because of the ice, so the missions were able to devote time to other considerations. The problem was handled with special care "out of consideration for the neutrality of Bulgaria" and because of concern over Turkey's possible unfavorable attitude.

Source claims that the original plan was to force a breakthrough of the METAXAS Line without violating Jugoslav sovereignty.

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Then Thrace was to have been occupied, whereupon the German forces would advance along both sides of the PINDUS Mts into central and southern Greece, with the objective of enveloping the Greeks who faced Italian forces attacking from the west. The British landings in Greece, the strength of which was uncertain, did not alter these plans. However, a sudden change of plans had to be made when Jugoslavia abrogated the Three-Power Treaty which she had just signed at the end of March 41, "thus allying herself with the enemies of Germany". Within six to eight days the planned attack was changed from a southerly to a westerly direction, that is, towards SKOPJE and NISH. At the same time a new force was established under Field Marshal von WEICHS in Styria and Carinthia for employment against Jugoslavia. Before these plans had been fully worked out the order was issued for a combined attack on Greece and Jugoslavia for one of the first days of April (6 Apr?)

c. OPERATIONS

Heavy air attacks preceded the occupation of BELGRADE, which fell a few days later when a simultaneous assault was launched by armored troops pushing on from NISH and by forward elements of an SS div which had been ferried across the Danube. HITLER gave the credit for its capture to the SS troops. Immediately thereafter the Jugoslav Army capitulated, but it was not possible to mop up all the fighting forces in the mountainous regions. These troops and the roving bands of the Balkans, which had never been routed out, formed the nucleus of the forces which were later led in battle by MIHAILOVITCH and TITO. These two leaders kept large German forces constantly tied up.

In the meantime the eastern German attack group which invaded Thrace from Bulgaria was directed to stay away from the Turkish border, but to protect itself against a possible Turkish surprise attack by the deployment of one German armored corps in the area northeast of SOFIA. Those portions of Jugoslavia and Greece which had been demanded by Bulgaria were occupied by Bulgarian troops, although the latter had not taken part in any of the fighting.

Hungarian troops, after an "independent decision" by the Hungarian government, participated in the fighting in the northern border regions of Jugoslavia and later occupied a part of those territories along the THEISS and SAVE rivers which belonged to Hungary until 1918.

When the German troops released from the Jugoslav campaign appeared west of the PINDUS Mts, Greek resistance, against which the Italians were unable to gain any success by themselves, rapidly collapsed. At about the same time fast moving German troops arrived at the capital after breaking the last serious resistance at THERMOPYLAE. In the meantime, the English troops, which had not appeared in force in any of the battles, were embarking at the southern Greek ports, reportedly having suffered heavy losses at the hands of the LUFTWAFFE.

At the armistice negotiations several complications were encountered. The Greeks did not want to surrender to the Italians because the Italians had never defeated them. But in spite of that the military govt was taken over almost entirely by the Italians, chiefly due to political reasons, but also because it was necessary to free German troops as rapidly as possible for the Russian campaign.

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8. CRETE

Towards the end of the Greek campaign HITLER returned to his original plan of invading Crete. This had as its purpose the protection of the Greek coast, the sealing off of the Aegean Sea, and the gaining of a springboard on the route to North Africa. After detailed study the invasion of Crete received priority over the storming of Malta. Preparations for this campaign were the responsibility of the LUFTWAFFE, under the command of GENOBST (Col Gen) LOEHR. In addition to strong forces of the LUFTWAFFE, including parachute troops, one Army mt div was committed by air. The plans were ordered to be carried out as soon as preparations were completed, in May 41. Success was achieved at the cost of very high losses in personnel and equipment.

9. RUSSIA

a. CONSIDERATIONS

In the last days of July 40, Gen JODL, Chief of the Armed Forces Operations Staff, at a special meeting of his senior staff officers at REICHENHALL, announced the FUEHRER's decision to "eliminate by a preventative war the Bolshevik threat to Germany which has resulted from Russia becoming an immediate neighbor". He stated that it had originally been HITLER's intention to go to war with Russia during the coming autumn, but that objections raised by himself (JODL) and by the Chief of OKW (KEITEL) had persuaded the FUEHRER to change his mind. However, he was determined to start in the spring of 1941 as early as the weather permitted.

This statement, which caused great concern to all present, was implemented by a few basic instructions in regard to preparations. Written orders were forbidden then and for some time afterwards. The first written orders were probably released in late autumn, under the code name "BARBAROSSA".

When MOLOTOV, the Russian Foreign Minister, arrived in BERLIN during the winter 1940-41, there were secret hopes that HITLER would abandon his decision, but source does not know whether HITLER ever considered the possibility of a peaceful solution.

The launching of the attack upon Russia was originally set for May 41, but participation in the Balkan campaign caused it to be postponed for about six weeks, until 21 (?) Jun.

Numerous incidents occurred in ever increasing numbers along the demarcation line defined by the SAN and VISTULA rivers (despite the fact that the exchange of goods as agreed upon in the Russo-German Treaty proceeded smoothly);and these were used as a pretext for the attack. Source goes on to say: "There can be no doubt,however, that Russia armed against Germany. This was known to us because of repeated remarks by Russian officers in the border districts and because Russia had immediately started to build defensive positions and great air bases, some of which I saw in the summer of 1941 in the Baltic States and eastern Poland."

b. PLAN OF ATTACK

(1) Proposed Deployment and Lines of Attack

The OKH had to work out a plan of operations based on directives issued verbally by HITLER. These plans called for the massing

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Ref No SAIC/FIR/11
24 Jul 45

of three Army Groups, disposed as follows:

(a) Army Group South (Field Marshal RUNDSTEDT): Southern Poland and Rumania. Its mission was to penetrate into the Ukraine, eliminate by an enveloping attack the large forces supposedly massed there, and push on to ROSTOV.

(b) Army Group North (Field Marshal LEEB): East Prussia. Its mission was to drive through the Baltic States on a comparatively narrow front to LENINGRAD, linking up with the Finns on the Isthmus of Karelia.

(c) Army Group Center (Field Marshal von BOCK): Poland. Its mission was to take possession of the corridor east of MINSK between the upper VOLGA and the lower DVINA.

A study made at JODL's order by the Operations Staff, OKW, arrived independently at a similar commitment of forces.

(2) Assembly

(a) Poland and East Prussia

The assembly of German forces along the German-Russian line of demarcation began soon after the termination of the campaign in France, disguised as security measures and routine movements necessitated by the occupation of the newly aquired Polish territories. Strong forces were also assembled in East Prussia without attracting undue attention. Because many army units were tied down in France by the proposed operation "SEELOEWE" and later in the Balkans by the Greek and Jugoslav campaigns, and because most of the German air force had to be committed against England until the last possible moment, a concentration of forces which would have revealed German plans was not brought about until just before the campaign opened.

(b) Rumania

A part of Army Group South, consisting mainly of forces which had participated in the Balkan campaign, assembled on Rumanian soil. This was arranged in the autumn and winter 1940 - 1941, when Rumania requested a strong German military mission for the training of her army and air corps and to protect her borders from further transgressions by the Russians. (Bessarabia and Bukovina had already been lost to the Russians).

(c) Finland

The Finns were easily won over to participation on Germany's side because of the so-called "Winter War" which preceded the campaign and which cost the Finns heavy territorial losses to the Russians. Arrangements concerning the part Finland was to play were made in SALZBURG in May 1941 during negotiations being handled by JODL and the Finnish Chief of Staff, HEINRICH. Included in these arrangements were German plans to withdraw troops from Norway to take over the defense of Central Finland and the northern area in the region of MURMANSK and the White Sea.

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(d) Hungary and Italy

The Hungarians and, source believes, the Italians were not notified concerning German intentions because the Germans feared a leakage of information through these countries. This was later bitterly denounced by the Hungarians, although their military efforts in the campaign gave no indication of their having much enthusiasm for it.

(e) Air Force and Navy

There were no special tactical targets for the German Air Force aside from the installations of the Russian Air Force. The Navy was assigned the task of protecting the Baltic Sea towards the Gulf of Finland.

(3) Strength

Almost the entire German Army was committed (about 120 divisions in all), leaving for the occupation of Norway, Denmark, the Balkans, and the West only such troops as were deemed vitally necessary. In the meantime the army was considerably strengthened by new mobilizations. The air corps mustered all units not needed for defense against British air attacks in Germany and occupied territories.

(4) Surprise

The assembly of German forces apparently achieved operational surprise. Considerable portions of the Russian Army, even in the frontier districts, had not even been alerted.

c. OPERATIONS

(1) Spring and Summer Campaigns 1941

(a) Army Group South

Despite the element of surprise, Army Group South, where the main effort had been concentrated, did not meet with the degree of success which had been anticipated. Heavy resistance was encountered on the flank, which could only be overcome gradually and not at all points. The battle of UMAN only relieved the pressure. Even after that REICHENAU's army, which formed the northern flank of the Army Group, was contained for a long time south of the PRIPET Marshes in the area south of KOROSTEN. The only operational success of major importance was achieved in the great battle around KIEV, KREMENCHUG and eastward, when parts of Army Group Center operating east of the DNIEPER were diverted southward. This success greatly increased the progress of the army group and permitted it to reach ROSTOV as winter began to set in.

(b) Army Group North

Progress in the North, where the secondary effort was made, was also disappointing. The Germans did not succeed in penetrating the difficult terrain of the WALDAI Heights towards the MOSCOW-LENINGRAD railroad, let alone in capturing LENINGRAD itself. Additional forces were transferred from the northern flank of Army Group Center to bolster the drive, and this brought about at least a partial success when the northern forces moved forward to Lake ONEGA thereby cutting all communications to LENINGRAD from the south.

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(c) Army Group Center

This Army Group, which had made good progress after the hard fighting at BERESINA despite the fact that it was originally the weakest of the Groups, was further weakened by the detachment of forces to aid the Army Groups on its flanks. In HITLER's opinion these shifts of forces to the flanks were carried out with too much hesitation and with insufficient troops. But contrary to HITLER's plans, the idea of giving up the drives on such widely seperated flanks and concentrating strong forces in the center for a drive on MOSCOW was gaining more and more favor at OKH. A discussion of these conflicting viewpoints resulted in Army Group Center receiving reinforcements from the rear, with the help of which it succeeded in winning the battles of VIAZMA and BRYANSK, which were thought to be decisive victories.

(2) Winter 1941-42

The advance towards MOSCOW, which followed these victories, was quickly terminated by the sudden and unseasonable onset of winter. In the area around MOSCOW, especially around TULA and KALININ, this produced a severe crisis which lasted in large sectors throughout the winter even in those secondary positions to which the Germans were forced to fall back under strong Russian pressure.

Far to the south, ROSTOV had been lost again, and the southern flank had been bent back to the MIUS River. One of the consequences of these reverses was a crisis centering around the leading army personalities. This resulted in the dismissal of Field Marshal von BRAUCHITSCH, who was ill, and the temporary dismissal of RUNDSTEDT and BOCK. Later on Col Gen HOEPPNER, who was in command northwest of MOSCOW, was also dismissed.

(3) Spring-Summer 1942

(a) Plans

After these crises had been overcome in the spring of 1942, and after the units had been reorganized and reinforced, operational plans were made for the second phase of the Russian campaign, worked out by HITLER to the smallest detail. He returned to his original plan of concentrating almost the entire effort on the southern flank, neglecting the northern flank for the time being and holding the center stationary. To achieve this the southern front was split into two Army Groups. The northerly group, first under BOCK, and later under WEICHSLER, was to form a strong defensive flank towards the north and northeast and then to attack in the direction of the DON River towards VORONESH and south of that city. Later it was to swing southeast, with strong motorized forces, advancing towards the CAUCASUS over the corridor between the Black and Caspian Seas. The more southerly Army Group, under LIST, was to break out of the STALINO region, crossing the MIUS river at the proper moment, and forming the right flank of the attacking forces, with its right wing anchored on the Black Sea.

(b) Crimea

Before the start of the main offensive, which did not occur until 28 Jun 42, it was decided to clear up the situation in the Crimea by taking ODESSA and driving the Russians from the eastern part of the peninsula. Both of these operations were carried out successfully in a relatively short time, although in the case of ODESSA with heavy losses. This made it possible to transfer six

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or eight divs of this Army (von MANNSTEIN) to Army Group North in the summer of 1942.

(c) LENINGRAD

It was the Germans' intention to resume the drive on LENINGRAD with the help of the reinforcements from von MANNSTEIN's Army. The Russians forestalled this move by committing strong forces against the eastern flank of the ring around the city. They attacked at SCHLUESSELBURG and further south, and MANNSTEIN's divs, which were brought up one after the other, were bled white. Thus they failed to achieve their original mission.

(d) Southern Offensive

Operations in the southern sector proceeded, on the whole, according to plan. However, they suffered increasingly from lack of transportation and fuel. Furthermore, the German forces proved to be utterly inadequate numerically for the length of their front, which was steadily growing and which eventually stretched from KUBAN over the CAUCASUS to the neighborhood of STALINGRAD. This condition was aggrevated when HITLER, fearing possible Allied landings in the west, and against the advice of his staff, pulled out several panzer divisions for transfer to the west.

The great initial successes could not be fully exploited because of this lack of strength and mobility, and Russian resistance, which was beginning to show increasing strength in the more important sectors, could not be broken.

HITLER attributed the failure to achieve complete success to incompetence and even malevolence among his commanders. The relief of BOCK from command was followed by the dismissal of LIST and HALDER, and JODL and KEITEL fell into disgrace for some time because they defended the measures which LIST had taken.

(e) Central Front

Army Group Center was also engaged in heavy fighting during the summer, especially around RSHEV. Here, too, HITLER's decisions and orders clashed with the considered judgement of the OKH and the Army Group, HITLER at first trying to gain a success with an attack at SUCHINITSCHI, while the others knew well that all available forces were needed for defense.

(4) Autumn 1942

The achievements of the autumn of 1942 were thus a far cry from the expectations of the summer campaigns of that year. Furthermore, a severe crisis developed and became more and more threatening, when the large sectors between the Caspian Sea and the area around KURSK had to be filled with troops of the satellite nations, troops which were of questionable value and poorly equipped.

The ambitious strategy calling for concerted drives on the Persian Gulf collapsed, first in the Caucasus and later on in Egypt as well. Source believes that HITLER felt this to be the decisive crisis of the war. It was apparent in his behaviour, which had changed completely. He tried to deceive himself, however, by holding stubbornly to the lines which had been established and by persisting in his efforts to take STALINGRAD. On 8 Nov 42, on the very same day that he publicly expressed this intention in MUNICH, British and American troops landed in North Africa at a point far removed from the

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active theater of war, which, although recognized as being highly sensitive, had ceased to claim the attention of most of the high-ranking German leaders. Less than three weeks later, while the Fuehrer was at the BERGHOF at BERCHTESGADEN, the Russians overran the Rumanian positions on either side of STALINGRAD and thereby started Germany on the path to her first great catastrophe of the war.

(5) Winter 1942-43

(a) STALINGRAD

The highest military leaders did not fully appreciate the decisive consequences of the failure of the summer campaigns, nor did they make the necessary revisions to their plans. HITLER still persisted in his determination to hold STALINGRAD, to reestablish connections with the forces there by utilizing a task force of utterly inadequate strength, assembled further south, and generally to hold to established lines. He forbade the Sixth Army to attempt to break out from STALINGRAD, as had been more and more urgently demanded by PAULUS and ZEITZLER, because he thought it would not be successful. However, the air corps was charged with insuring the supply of the STALINGRAD forces, despite the most difficult weather conditions.

(b) Further Breakdowns

While the Sixth Army was being wiped out at STALINGRAD, the Rumanian sector, and later the Italian and Hungarian sectors, broke down one after another, carrying many German divs to destruction with them. The decision to pull back the German forces from the Caucasus as quickly as possible could no longer be delayed. Freedom of action had unquestionably been lost, although the German striking force was temporarily increased and made itself felt in the retaking of KHARKOV in the spring of 1943.

(6) 1943-and after

(a) Summer 1943

Even HITLER had no intention of starting any large scale offensives during 1943. Nevertheless he could not bring himself to the decision of withdrawing beyond the positions which had been forced upon the Germans by the Russians, and thereby regaining some operational freedom. The attempt to gain a tactical success at KURSK in the early summer of 1943, after most, if not all, the divs had been reinforced and reequipped, ended in complete failure and extremely heavy losses. This undertaking was planned by ZEITZLER, who won HITLER's grudging consent against the advice and vigorous protests of the OKW. The leaders of the OKW tried to form strong reserves for use by the Supreme Command, because the tense general situation resulting from the disaster in Tunisia might become worse at any moment through further landings in Italy or in France.

(b) Conclusions

In source's opinion all the subsequent defeats on the eastern front had the same basic causes, namely: Insufficient forces throughout the front; lack of depth; lack of striking power due to continually decreased supplies and equipment; stubborn insistence on holding certain sectors and strong points for not only military reasons, but for economic and political reasons as well; lack of alternative

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positions; distrust in the higher and middle echelons of command, which led to constant change but not to improvement; finally, complete miscalculation of enemy strength, which made eventual defeat only a matter of time.

10. ENTRY OF JAPAN AND THE US INTO THE WAR

When Japan and the US entered the war, special measures were taken by the High Command only so far as the war at sea was concerned. Until that time the operational zones for German submarines had been carefully limited in order not to give the US cause for entering the war. These zones were enlarged in accordance with the new situation.

The strategically important question as to where the main US forces would first be concentrated was answered more or less openly by the Americans themselves when they announced that Europe would be the first goal. But it was not apparent how quickly strong American forces could be employed in the European theater. In this connection, HITLER's repeatedly expressed opinion that Germany should occupy Iceland and the Azores was given new consideration, but was finally dropped because it was not deemed a military possibility.

11. THE ANGLO-AMERICAN LANDING IN NORTH AFRICA

(a) Surprise

The Allied landing in North Africa, 8 Nov 42, caught the German Supreme Command completely by surprise. (The FUEHRER was on that day en route to MUNICH from his Hq in East Prussia.)

The possibility of such a landing had often been considered in earlier discussions, because North Africa was thought to be the most suitable jumping off place for an attack upon Italy, the weakest link of the European fortress. Negotiations concerning this question had been carried on from time to time with the French, in the hope of influencing the French in favor of the German position and enabling them to defend the North African coast with their own forces in case of such a landing. For this purpose the Germans released French North African prisoners of war who were professional soldiers, as well as an entirely insufficient quantity of obsolete tanks, anti-tank weapons, and anti-aircraft guns. Since these negotiations were not continued after May 41, and since political relations with France were such that a state of preparedness could hardly be expected from the French, it was quite obvious what would happen if a serious amphibious operation were attempted against North African soil.

(b) German Counter Measures in Europe

The first German counter measure was the occupation of all of France. This was ordered by HITLER after a short conference with the VICHY govt. It was feared that the North African landings might shortly be followed by landings along the French Mediterranean coast. The Commander-in-Chief West would not be given additional fighting troops for the defense of this coast, but was compelled to stretch his defense sectors and make use of improvisations in transferring reserve units and other stationary units to France. Therefore, Italy's participation in the defense of southeastern France was requested and obtained. All these movements went off quickly and, on the whole, smoothly.

(c) German Counter Measures in North Africa

In North Africa itself the main problem in HITLER's opinion was to beat the Allies in gaining a foothold in Tunisia, thus se-

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curing good bases for any future operations and, above all, preventing an Allied advance upon ROMMEL's rear.

At first the only troops available were those German divs destined for Africa which were still in Italy owing to lack of transport. From these divs special improvised units were formed which succeeded in gaining a foothold in northern Tunisia and in defending this bridgehead against the first Allied attacks. With utmost speed additional forces, not exceeding two divs, were dispatched , and these troops, together with numerically superior Italian forces, were able to take possession of the greater part of Tunisia. Gen von ARNIM, who received his orders from the High Command via Field Marshal KESSELRING, was placed in charge of these forces. And in Feb 43, since ROMMEL's army, in the meantime, had to withdraw further and further west after its retreat from ALAMEIN, the German forces in Tunisia were given the additional task of coordinating the operations of ROMMEL's army with their own. With this aim in view, it was decided to withdraw ROMMEL's troops to the MARETH Line.

(d) The Tunisian Campaign

At the end of February or early in Mar 43, on orders from the German Supreme Command, a task force was committed in southern Tunisia with the mission of attacking in a northwesterly direction from the vicinity of GABES. The purpose of this attack was to widen the sector of operations and, by an attack from the rear, to stave in the Anglo-American front, which was making itself more and more strongly felt in northern Tunisia. However, after a short-lived initial success these plans had to be discarded because it turned out that the German-Italian forces did not have the means of providing adequate supplies for these troops, despite the considerably shorter sea and air communications with Tunisia. For the same reason it proved impossible to transfer to Tunisia all the troops which had been destined to go there.

Despite these considerations HITLER, in full agreement with MUSSOLINI, stuck to his decision to stay in Tunisia. When it was finally realized that the Axis forces would shortly collapse in the face of Allied superiority, communications with Tunisia had already been cut, and it was possible to evacuate only a very few persons to the Italian mainland.

The loss of Tunisia was considered by the entire German Army to be a catastrophe second only in magnitude to that of STALINGRAD.

(e) Visions of Glory

Although, as previously mentioned, it had been impossible to ship to Tunisia all the units originally intended for that theater, HITLER had plans which went far beyond the defense of Tunisia even as late as the winter of 1942-43. His idea was to assemble there a select army of mtz units which would attack with far-flung operational objectives, advancing beyond Algeria to Morocco, and driving the Anglo-American invasion army from African soil. As a result of developments both in Europe and Africa, these plans were never worked out in any detail.

12. ITALY AND SICILY AFTER THE FALL OF TUNISIA.

(a) Counter Measures

As the battle for Tunisia approached its inevitable climax, the necessity for the German Supreme Command to counteract a possible Allied attack upon Italy by the Commitment of German troops there

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became more and more urgent. For a long time, however, Anglo-American intentions remained very much in doubt.

(1) Greece and the Balkans

For some time HITLER and his close advisors were inclined to believe that the western coast of Greece and the Dalmatian coast as far north as SPALATO would be the next target of Allied operations, possibly accompanied by a British advance from Egypt into the Aegean Sea. This opinion seemed justified because of the weakness of German positions in the Balkans and further north, by the importance of the raw materials there to the German war machine - particularly Rumanian oil -, by the political influence such a landing would have on Germany's unreliable allies in southeastern Europe, and, finally, by the presumed Allied intention of attempting to achieve a closer cooperation with Russia while at the same time preventing Russia from establishing a dominating position in the Balkans.

To provide for the eventuality of such an Allied operation the Germans adopted the following counter measures:

(i) The transfer of a Pz div from the west to the Pelloponesus. (HITLER stuck to this decision despite the fact that reconnaissance showed that armored troops could be employed only to a limited extent in that terrain; that this commitment meant a further splitting up of strength, and that transport to this area would take two months.)

(ii) Increased employment of coast artillery, and extension of coastal defenses (mostly light Italian guns which were not suitable for the purpose).

(iii) Broadening of command channels through the formation of an army group and the addition of another army Hq.

(iv) The preparation of deployment orders, so that when needed about 12 divs could be brought up in the shortest possible time (30-80 days), mostly from the east.

(v) The air corps also made special preparations.

(2) France

A landing in southern France, possibly accompanied by an invasion of the coast of the Bay of Biscay, launched from England, was considered a lesser possibility at that time. For a while HITLER strongly believed that Portugal and Spain would be the next target of Anglo-American operations. If such an intention became evident the air corps was to be held chiefly responsible for counter measures, providing powerful forces for attacking ports and convoys. In general the C in C West, following more detailed instructions from the Supreme Command, had to prepare coastal defenses against these and other eventualities.

(3) Italy, Sicily, and Sardinia

(a) Uncertainty

Contrary to the considerations mentioned above, an Allied push on Fortress Europe across Italian soil became more and more probable. But even here many factors remained uncertain. Would the push aim first at Sicily or Sardinia, or would it be directed against the Italian mainland, perhaps in the open region around

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Ref No SAIC/FIR/11
24 Jul 45

APULIA which was so important to the German air force? A landing in central Italy, too, in the area between ROME and NAPLES, was not considered out of the question. If there was a great deal of uncertainty concerning the probable direction of an Allied attack, a further element of uncertainty was added by the question of the will and strength which Italy would display in its own defense. The measures Italy had taken for the defense of the long coastlines of her islands and of the mainland turned out to be negligible. Nothing could be expected of her fleet, especially since it was said to have very little fuel left. The Italian air force had been more or less wiped out. The hope that the Italian soldier would prove himself better in the defense of his own territory than he had been in Africa and, particularly, in Russia, was frequently expressed but could not stand up under close military scrutiny.

(b) Strained Relations between Germany and Italy

To add to this uncertainty, military and political relations between Germany and Italy were even then strained to the utmost. With the full understanding of Germany, Italy had withdrawn all her forces from the east after the breakdown of the winter of 1942-43. However, the defeat was blamed on Germany, a point of view which was spread by word of mouth by officers and soldiers returning from Russia, and sometimes in violent form by the Italian press. The catastrophe in Tunisia, which had been preceded by the loss of the last portions of the Italian colonial empire, was blamed more on the continual interference by the German commanders and the insufficient support of the German Air Force rather than on the Italians' own failure. In those sections of the Balkans in which Italians and Germans fought together, there arose serious differences caused by the Italians favoring certain elements unfriendly to the Germans, especially the Chetniks. As a result of this situation source accompanied the German Foreign Minister on a visit to MUSSOLINI and AMBROSIO in ROME, in Feb 43, but even this visit failed to accomplish satisfactory results.

(c) Tension between HITLER and MUSSOLINI

Relations between HITLER and MUSSOLINI also became strained at this time. MUSSOLINI felt that he was losing authority as the Germans gained more influence, and all of HITLER's attempts to have another meeting on German soil, after the meeting at KLESSHEIM in Apr 43, failed for this reason, and because of the unfavorable development of the over-all military situation. For a long time HITLER expected a visit from MUSSOLINI at the BERGHOF, but he refused to go to Italy, fearing for his safety. The Allied landing in Sicily, however, compelled him to arrange a meeting at TREVISO on 21 Jul 43 to meet the new crisis.

Even at TREVISO they failed to reach a decision on a most important military question - the clear-cut assignment of commands in Italy and the Balkans. Source was present at the meeting, and the point was not even discussed. On the contrary, the chief topic was the matter of new German weapons - planes, tanks, anti-tank guns, and anti-aircraft guns - which the Italians had demanded more and more urgently ever since the campaign in North Africa started to deteriorate. German anti-aircraft artillery had been committed on a large scale in Italy and was currently being taken over by the Italians. The Italians also wanted to take over the other weapons on a similar scale - in fact in quantities which it was beyond the capacity of the Germans to produce. The Italian demands were so unreasonable that they gave the impression of being made solely as an excuse for the Italians to get out of the war. This

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Ref No SAIC/FIR/11
24 Jul 45

suspicion was heightened by the fact that the Italians were extraordinarily cool to prposals to commit more German troops in Italy, in spite of the unfavorable military situation there.

(d) German Troops in Italy

From the time of the loss of Tunisia the Germans always endeavored to keep at least three or four divs in Italy to bolster the Italian defense. It was intended to send one of these divs to Sardinia and one to Sicily. Hard as it was for the Germans to spare these troops, it proved even more difficult to force them upon the Italians, and sometimes they only succeeded in accomplishing this by means of subterfuge. At the same time the Germans realized that these troops could not be expected to do anything more than bear the initial brunt of an Allied attack. Whatever value they had would be lost if the Italians themselves should fail. For this reason the Germans attempted to infiltrate as much as possible into the Italian High Command and into the Italian army staffs, in order to gain a decisive influence.

Despite the German realization that it would be necessary to deploy very much stronger forces in Italy to meet an Allied attack there, they were still unable to make the necessary disposition of their forces to meet the requirements of over-all German strategy. On the contrary, ZEITZLER's offensive at KURSK had used up all the reserves which had been collected during the hard winter.

(e) Sicily

When the Allies made their landing in Sicily, 10 Jul 43, there were, in addition to the six or eight Italian divs, two large German units, including the HERMANN GOERING Pz Div. Furthermore, fortress battalions had been posted at the spots where it was considered most likely that a landing would be made. HITLER had taken special care to equip these units with heavy weapons.

The mission of the German Air Force was to strike at Allied landing installations and at convoys, especially at those which were in ports along the North African coast. Field Marshal von RICHTHOFEN was against the latter proposal, believing that better results would be obtained and fewer anti-aircraft defenses encountered if the boats were not attacked until they neared the coast.

The deployment of the German forces in Sicily following the collapse of the Italian coastal defenses went according to plan and proved to be very effective. According to reports received by the German Supreme Command, the German counter attack very nearly succeeded, especially in the sector along the southern coast. When it became clear that Sicily could not be held, the command was gradually turned over to Gen HUBE, who succeeded in transferring most of the German troops to Calabria. This was accomplished by the taking of many special measures by the High Command to secure the Strait of MESSINA against Allied attack.

(f) Italy

A regrouping of forces was carried out in southern Italy, with the main strength centered around NAPLES and SALERNO, while weaker forces were held in Calabria and Apulia. Source believes that, contrary to Italian demands, the German div on Sardinia was withdrawn to the mainland at that time.

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C O N F I D E N T I A L

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APO 758

A HISTORY OF GERMANY'S CAMPAIGNS IN WORLD WAR II BY GENOBST (COL GEN) HEINZ GUDERIAN

Final Interrogation Report

SOURCE

GUDERIAN, Heinz, GENOBST (Col Gen), FUEHRERRESERVE (Officers Pool), former Chief of Staff, German Ground Forces, and Inspector General of Armored Units. Prior to the war Gen GUDERIAN held the following important army positions: 1932-Jul 34, Chief of the Inspector's Staff, BERLIN; Jul 34-Sep 35, C of S of Armored Command, BERLIN; Oct 35-Feb 38, CG, 2 Pz Div, WUERZBURG; Feb-Nov 38, CG, XVI (armored) Corps, BERLIN; Nov 38 to start of war, Chief of Mtz Units, BERLIN. During the war he led a pz corps in Poland and France, and later a pz corps and a pz army in Russia. (For other reports concerning GUDERIAN cf Reports Ref Nos: SAIC/17 and 23, SAIC/CIR/6, SAIC/X/6, and SAIC/X/12. A more detailed history of GUDERIAN appears in Report Ref No SAIC/23). The information contained in this report was given freely and willingly. It is GUDERIAN's own account of his experiences during the war, and it is presented as closely as possible in his own words. It is felt that this report is not entirely objective, but the most biased statements have been deleted.

Rating: C-3 Date of Information: See Text Interrogator: R.W.

I

BACKGROUND OF WAR

1. RHINELAND

The reoccupation of the Rhineland in 1936 caused the first serious strain in international relations. The occupation force was kept at a minimum lest the French become unduly antagonized. If I remember correctly, only seven bns participated in the occupation, and the entire action might be termed a gesture. No armored units were sent to the Rhine. My own div (2 Pz Div) took its training during the critical weeks without its tank regts, on the MUENSINGEN Tng Grounds, Wuerttemberg. The Supreme Commander of the Army, Gen VON FRITSCH, held an inspection there.

2. SPAIN

I played no part in the Spanish Civil War.

3. REMOVAL OF ARMY COMMANDERS

In Feb 1938 HITLER dismissed the War Minister, Field Marshal VON BLOMBERG, leaving the position vacant. The powers vested in this post were taken over by HITLER himself, while part of the responsibilities were transferred to Gen KEITEL. On the same day, Gen VON FRITSCH, the Supreme Commander of the Army, was dismissed, out of a clear sky, without cause and without previous investigation. With the removal of VON FRITSCH, the guiding light of the Officers Corps and a sincere friend of peace was lost. VON FRITSCH, an honorable, soldierly personality, reserved, conscientious, and steeped in the traditional Prussian code of military ethics, had been unable to gain HITLER's friendship or his trust.

On the same day a number of other senior generals were abruptly removed. Furthermore, the Chief of the General Staff, Gen BECK, was relieved during the Sudeten crisis in the autumn of 1938, when he advised against the pursuit of policies which would menace the peace of Germany.

Gen VON BRAUCHITSCH became the new Supreme Commander of the Army. He made vain efforts to right the disgusting wrong done to Gen VON FRITSCH, and in this attempt the entire German Army stood behind him. Because he failed to back his stand with his resignation, he not only lowered the repu-

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tation of the German Generals but demonstrated a weakness which HITLER was able to exploit later on. This and the foul murder of the former German Chancellor and War Minister, VON SCHLEICHER, in 1934, for which no one was ever prosecuted, are indicative of HITLER's policy of revolt against the Army, the foundation of the REICH. Thus by evicting men of character from key positions, by limiting or dividing their rights and authority, and by restricting the independence of the courts and judges, he succeeded in preventing any change of government, thereby maintaining his dominating influence on war and politics.

4. ANNEXATION OF AUSTRIA

In March 1938 HITLER decided to annex Austria. Shortly before, I was appointed CG of XVI Corps, the German Armored Corps. I was informed of the decision to march into Austria at the same time that I received my orders, 40 hours before crossing the frontier. I was scheduled to cross the border with the 2 Pz Div and the LEIBSTANDARTE ADOLF HITLER near PASSAU at 0800 hours 13 March. I was to reach VIENNA by way of LINZ. The main body of the 2 Pz Div arrived in PASSAU on the night of 12-13 March, the remaining troops coming on 13 March. All troops had been alerted suddenly in the middle of their peacetime duties. All commanders of 2 Pz Div were on official duty trips in the MOSELLE Valley. The invasion of Austria was entirely unprepared.

We received a wonderful reception from the Austrians. HITLER was enthusiastically acclaimed on the market place in LINZ. I was next to HITLER during his address and that of SEYSS-INQUART on the balcony of the city hall, and I witnessed the tremendous demonstration of the assembled masses. I then drove on to VIENNA via ST POELTEN, arriving at the capital at 1:30 AM at the head of my troops. Large throngs of people crowded the streets, despite the late hour and the very bad weather. I was carried to my hotel by overjoyed citizens of VIENNA. On 14 March I visited the Austrian govt offices. A combined parade of Austrian and German troops was reviewed by HITLER in VIENNA; it was very good.

5. HUNGARY

In the summer of 1938 the Hungarian Regent, his wife, and his cabinet visited BERLIN. HITLER's intention to achieve an alliance with Hungary failed, and he clearly expressed his disappointment in a toast he gave at a banquet held in HORTHY's honor. On that evening HITLER was in very bad spirits.

6. CZECHOSLOVAKIA

On the NUREMBERG Party Day in Sep 1938, HITLER uttered his well known threat against Czechoslovakia. Troops were made ready for an invasion of that country. I ordered the XVI Pz Corps to the Tng Grounds at GRAFENWOEHR and was myself instructed to march through the so-called FUERTHER SENKE in the event of hostilities. The MUNICH Pact, however, led to a peaceful solution of the Sudeten problem. My Pz Corps was transferred to the north and moved to EGER by way of ASCH and finally to KARLSBAD. I met HITLER at the frontier and took part in the receptions at KARLSBAD and EGER. At these gatherings there were heart-rending scenes. I recall that in the KARLSBAD theater women fell to their knees at sight of the FUEHRER, and many of them wept. I mention this because it demonstrates HITLER's great influence on the masses at this time. It also shows how much the German people craved unity, release from the bonds of the VERSAILLES Treaty, and broader economic horizons brought within reach by HITLER's political promises to the people.

In the late autumn of 1938, an otherwise unimportant GAU Day in WEIMAR was made memorable by a highly significant political speech by HITLER. He attacked CHURCHILL and EDEN for the first time, accusing them of war mongering. This speech caused the raising of eyebrows, particularly as it occurred only shortly after a highly satisfactory settlement had been achieved at MUNICH.

7. MEMEL AND THE POLISH CORRIDOR

Except for MEMEL and the Polish Corridor, the autumn of 1938 probably

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saw the German people satisfied at having achieved their national aims as a result of HITLER's policies. The people gave him their confidence, and they gave him unlimited powers. The Party held this subservient attitude to a degree amounting to bondage. The people no longer had a voice in the election of the REICHSTAG, and that body became a mere choir of nodding heads.

Neither among the people nor in the Army was there any thought of the possibility of war after England and France had signed the MUNICH agreement. It was everyone's sincere conviction that those questions which were still unsettled would not lead to war.

In Nov 1938 I relinquished command of the XVI Pz Corps and became Chief of German Motorized Troops, thus becoming even further removed from politics than in the past. I knew nothing about the invasion of Czechoslovakia until it had become an accomplished fact, because there were no military preparations for this venture. Although the Protectorate of Bohemia and Moravia was accepted by the signers of the MUNICH Pact, political tension increased.

HITLER now turned his attention to the settlement of the questions concerning the Polish Corridor and MEMEL. He managed to acquire MEMEL without bloodshed, but Poland, relying upon British guarantees of aid, refused to agree to a plebescite as a settlement of the Corridor question. The Polish Foreign Secretary refused an invitation to BERLIN, going to LONDON instead. Prince Regent PAUL of Jugoslavia, after a short visit with his family in Germany, also went to LONDON.

Despite these and other obvious danger signals, it was still felt in BERLIN that the western democracies would not interfere in the dispute with Poland. HITLER assured himself of Russia's neutrality by the signing of the non-agression Pact with the Soviet Union in Aug 1939.

8. CLIMAX

The month of August saw me ordered to the Tng Grounds of GROSS-BORN in Pomerania, where I became CG of the newly formed XIX Pz Corps. It was there that I received my orientation on the pending invasion of Poland. There were no detailed preparations for commanders and troops for the Polish campaign.

With the beginning of the Polish campaign some obvious political disappointments took place: MUSSOLINI did not enter the war as he had agreed to do; England and France declared war on Germany. With these events the bottom dropped out of German politics. Germany did nothing during the remainder of the war to strengthen her political future.

II

HISTORY OF OPERATIONS, SEP 1939 - FEB 1943

(During this period Gen GUDERIAN was a field commander of armored troops)

1. THE WAR AGAINST POLAND

a. THE TUCHELER HEATH (1 SEP - 9 SEP, 1939)

My command in Poland was that of the XIX Pz Corps, consisting of the 3 Pz Div and the 2 and 20 Mtz Inf Divs. The Corps fought under Gen VON KLUGE's Fourth Army, which in turn came under Gen VON BOCK's Army Group.

The three divs were alerted on the night of 31 Aug-1 Sep, in the sector extending from PREUSSISCH FRIEDLAND to northwest of KONITZ. The order was to begin a march on the VISTULA between KULM and GRAUDENZ, early on 1 Sep, with the aim of splitting the Corridor, destroying the troops contained in it, and making a junction with East Prussia.

An attack by the 3 Pz Div north of ZEMPELBURG through GROSS-KLONIA seemed to promise the greatest likelihood of success. Consequently I stayed with this unit. The 3 Pz Div was able to crush the enemy on the west bank of the BRAHE River by noon; in the afternoon the river was crossed and a bridgehead established; and the same evening patrols were sent across the TUCHELER Heath for reconnaissance to the banks of the VISTULA. To the left of the 3 Pz Div was the 2 Mtz Div, which dug in before Polish fortifications, and to the north of this unit was the 20 Mtz Div, which captured KONITZ.

On 2 Sep the 3 Pz Div penetrated the Polish lines east of the BRAHE River, with advanced elements of the div reaching the vicinity of

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Ref No SAIC/FIR/12
26 Jul 45

SCHWETZ on the VISTULA. I had the 2 Mtz Div support the 3 Pz Div and also attack TUCHEL from the south. The town was very easily taken. The 20 Mtz Div drove northward across TUCHELER Heath. As a result of these developments the enemy forces fighting to the north of the 3 Pz Div were cut off from their comrades fighting around BROMBERG.

On 3 Sep the main body of the 3 Pz Div was able to reach the VISTULA. The Div then pushed on along the river to GRAUDENZ in order to prevent the Poles from crossing the river and escaping via KULM and GRAUDENZ. The 23 Inf Div was temporarily taken out of reserve and put under my Corps command, taking over a sector between the 3 Pz Div and the 2 Mtz Div. Meanwhile, the 20 Mtz Div went into action near GRUPPE with GRAUDENZ, across the river, as its objective.

As a result of these tactics the Polish forces committed in the sector of the TUCHELER Heath (three to four inf divs and one cav brig) were surrounded and suffered heavy casualties, while our own losses were light.

On 6 Sep HITLER visited the XIX Corps front, and I conducted him to the most advanced outposts between SCHWETZ and GRAUDENZ. The population greeted HITLER with flowers. On 7 Sep the Polish pocket surrendered, and my corps prepared for a crossing of the VISTULA at MEWE.

b. THE DRIVE ON WARSAW (7 Sep - 20 Sep, 1939)

On 7 and 8 Sep we crossed the VISTULA, and on the evening of 9 Sep I reported to Gen VON BOCK. He had plans for me to spearhead a drive on WARSAW by way of LOMSHA by VON KUECHLER's Army. This maneuver would have necessitated the taking of LOMSHA and the WARSAW Line by frontal attack, which had been tried without success once before. I asked permission to have my corps committed immediately, further east, under the Army Group, in order to pave the way for a thrust into the enemy's deep flank and rear at BREST-LITOVSK. Permission having been granted, my divs were moved by road and rail to the easternmost wing of the Army Group and were assembled in the area between JOHANNISBURG and ARYS.

On 10 Sep I set out to visit the troops on the NAREW River near WIZNA, where the newly committed 10 Pz Div was to cross. When I arrived at 0800 hrs, only small groups of inf had managed to force a crossing, and farther east a fortress brig was in the act of crossing. By nightfall an adequate bridgehead had been established, armor came across and assisted in the taking of the concrete bunkers on the south bank of the NAREW.

The 20 Mtz Div crossed the river on 11 Sep west of WIZNA and advanced along the south bank towards ZAMBROW. The 10 Pz Div began a drive on WYSOKIE MAZOWIECKI and captured the town by evening. The 3 Pz Div was brought up behind the 10 Pz Div and after the river crossing assumed a sector on its left. Our armored reconnaissance, which functioned excellently, reached the BUG River at SIEMIATYCZE on the same day. Crossing of the NAREW continued on 12 Sep. On the right wing the 20 Mtz Div made contact with Polish forces of one inf div and one cav brig retreating from LOMSHA. These were wiped out with the assistance of the 10 Pz Div and the 3 Pz Div. The remainder of the Polish cav managed to fight its way out to the east behind our forward lines.

Our advance continued past BRANSK to BIELSK on 13 Sep, and to KAMIENIEC-LITEWSKY on 14 Sep. The 2 Mtz Div, in reserve in East Prussia, returned to the corps by way of LOMSHA. Thus there were four armd or mtz divs advancing rapidly southward between the river BUG and BIALOWIEZA towards BREST-LITOVSK to attack the rear of the enemy fighting around WARSAW. This movement took the enemy by surprise, and resistance around BREST-LITOVSK was slight. The forts on its eastern approaches and the city itself were taken by our rcn bns, but our efforts to take the citadel with its protecting moat in the same way failed. On 16 Sep an attack supported by arty also failed because inf elements of the 10 Pz Div did not make full use of the arty. On the night of 16-17 Sep the 20 Mtz Div crossed the BUG River and captured the citadel by surprise early in the morning of 17 Sep.

In the meantime the 3 Pz Div had bypassed BREST-LITOVSK on the east and was headed for WLODAWA from the south, while the 2 Mtz Div drove east to KOBRYN. The 3 Pz Div was to achieve a junction with the 2 Pz Div coming from the south, in order to complete the encirclement of all remaining Polish units fighting around WARSAW. With this in mind the div advanced

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on both sides of the BUG towards CHELM and LUBOML but failed to reach its objective before the end of hostilities in Poland. Both divs were intermittently forced to stem heavy rear guard actions by the Poles.

On 20 Sep we were prepared for the approach of the Russians. In accordance with a previous agreement, I turned over to the Russians the area lying east of the designated line of demarcation, including the fortress of BREST-LITOVSK. Immediately afterwards the XIX Corps was sent to East Prussia, where it was dissolved. The staff returned to BERLIN in Oct.

Poland was defeated within three weeks. The factors which were chiefly responsible for this lightning victory were superiority of German equipment, our Air Force, and the new application of armored warfare. Because of the appearance of Soviet troops on the scene, any further fighting for Poland would have been utterly hopeless. The Polish soldier fought well and has earned our respect.

2. BETWEEN THE POLISH CAMPAIGN AND THE CAMPAIGN IN THE WEST

a. HITLER'S DISTRUST OF THE GENERALS

We returned from Poland with a sincere belief in having done our duty. Because of this feeling, German generals were due for a disappointment. In a series of lectures and speeches GOERING, GOEBBELS, and HITLER all made remarks along the following lines: "There is no doubt that the Air Force generals are in every way politically reliable; the admirals, under the capable guidance of Admiral RAEDER are above suspicion; but the Army generals cannot always be counted upon." This reproach hurt particularly because it was made in the presence not only of generals but of junior officers as well. I vainly tried to persuade several senior generals to go to HITLER and submit a protest against such accusations, and I finally decided to go to the FUEHRER myself, although I was one of the youngest generals with a command. Towards the end of Nov I had a private interview with HITLER during which I told him that I felt compelled to raise objections to his reproach, basing my arguments on our accomplishments in the Polish campaign and on our willingness to reaffirm our loyalty in any coming engagements in the west. He listened to me quietly and then replied: "The reproach concerns Gen VON BRAUCHITSCH". He went on to mention his distrust of this general and of Generals VON BLOMBERG, VON FRITSCH, and BECK. On the subject of replacing VON BRAUCHITSCH he concluded that he would not be able to find anyone worthy of the post. Thus I derived no satisfaction from my conversation with HITLER. I left him with the sad conviction that there was inner uncertainty and disunity among the highest leaders of the REICH, at a time when the fate of all Germany was at stake.

b. PLANS FOR THE ATTACK ON FRANCE

At the end of the Polish campaign it was our belief that an attack against France would follow immediately. I do not know why it did not take place. After Nov, unfavorable weather combined with difficult terrain undoubtedly accounts for a further delay.

The original plans for the attack against the French and British were mapped by the Army High Command along the lines of the old SCHLIEFFEN Plan, that is, a strong right flank attack through Holland and Belgium. After a German courier with top secret orders had landed in BRUSSELS instead of in COLOGNE, the plans were changed. HITLER decided to attack with strong armor through Luxembourg and southern Belgium, reach the MEUSE at SEDAN, and there achieve a breakthrough of the MAGINOT Line. This operation, if successful, promised a swift march to the mouth of the SOMME River, a thrust to the Atlantic, and the cutting off of the French, British, Dutch, and Belgian forces in northern France from their comrades in the MAGINOT Line. The operation as a whole could easily be of decisive importance.

At the end of Nov 1939, while I was at my Hq in COBLENZ, I was ordered to BERLIN to express my opinion of the plan. In the event that I

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were to approve the plan, I was to undertake the preparation and direction of its offensive spearhead. Compared to the old SCHLIEFFEN Plan the new plan had the following advantages:

(1) According to our intelligence, the enemy counted upon our using the SCHLIEFFEN Plan. He had marshalled the great mass of his armored and motorized forces at the French-Belgian border and seemed determined to strike into Belgium with the beginning of the German offensive.

(2) The land defenses of Holland and Belgium also indicated an anticipation of our putting the SCHLIEFFEN Plan into practice. The Belgian defenses on the Luxembourg border, on the contrary, were weak.

(3) In the SEDAN sector the MAGINOT Line was comparatively weak.

(4) The concentration of troops around SEDAN was also weak.

(5) On the whole, the element of surprise could be counted upon to increase the probability of the operation's success.

Further study of this plan of attack made it perfectly clear that it would be necessary to use more than the two or three armored divisions originally contemplated. If the crossing of the MEUSE and the subsequent penetration of the MAGINOT Line were to succeed, the exploitation would have to follow without delay. It became necessary, then, to cover the movements of one or of both flanks, regardless of whether they should take the direction of the Atlantic, or Paris, or through VERDUN to the south. It was determined that at least nine or ten armored divisions would have to be used. It was possible to convince the Army of this. Consequently, not merely the XIX Pz Corps, but the XXXVIII and the XIV as well, were incorporated in the plan, under the command of Gen VON KLEIST.

For the first time I had the opportunity to give detailed orientation to my subordinate commanders and troops on the pending operation. The work was very thoroughly done, and it paid off.

3. THE WAR IN THE WEST (9 MAY - 22 JUN 1940)

a) SEDAN (9 MAY - 12 MAY)

On 9 May 1940 the XIX Corps was alerted, and within three hours it assumed its place in an assembly area at the Luxembourg frontier. The three divs were lined up horizontally, with the 2 Pz Div on the right, the 1 Pz Div in the center, and the 10 Pz Div on the left. The 1 Pz Div was followed by the Corps Staff, the "GROSS-DEUTSCHLAND" Inf Regt, and the Corps Arty. These units formed the main effort.

The border was crossed on 10 May, all road blocks in Luxembourg were demolished by charges, and by afternoon the Belgian border was reached near MARTELANGEN.

The battles for the Belgian border fortifications, the clearing of roads and of mines, occupied us for the rest of the day and the night.

On 11 May the advance into Belgium was continued, Belgian mt inf and French cav were eliminated, and by evening we reached the vicinity of BERTRIX.

On 12 May we forced a crossing of the SEMOIS River near BOUILLON and at points east and west of the town. In the afternoon the 1 Pz Div took SEDAN, and the 10 Pz Div captured BAZEILLES and BALAN. The 2 Pz Div encountered difficulties in crossing the SEMOIS and had halted.

b. THE MEUSE BRIDGEHEAD (13 MAY - 15 MAY)

After reaching the MEUSE preparations were made for the assault. It would have been desirable to have selected the 14th as the day for the attack, as all three divs could have taken part in the assault. Gen VON KLEIST, however, ordered the attack to begin on the 13th at 1600 hrs. Therefore the 2 Pz Div was forced to fall out of the march and attack the fortified river front. The enemy recognized our plan and sent up his air force.

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The arty preparation began at 1400 hrs on 13 May. All our heavy arty fired into the sector in front of that held by the 1 Pz Div strengthened by the "GROSS-DEUTSCHLAND" Regt, leaving only two lt arty bns to support the flanking divs. At 1600 hrs the inf crossed. At 1800 hrs the bns of the 1 Pz Div proceeded to attack the MAGINOT Line across the MAAS plains. The initial arty fire was accompanied by accurate bombing of the MAGINOT positions by Gen LOERZER's air force. This air force insured our air superiority. The inf was able to push ahead rapidly and by late afternoon had penetrated the enemy positions on a 5 km stretch. Fighting continued during the night. The afternoon had also seen the 10 Pz Div cross the river, but only weak elements of the 2 Pz managed to cross. The building of bridges was begun immediately. During the night of 13 May the crossing of the river continued, and with the completion of the bridging work more armor was brought over in order to squelch a counter thrust expected the next day.

In the morning of 14 May, the 1 Pz Div's tank brig had crossed the MEUSE and had reached CHEMERY just as the French had begun to recover from their first shock and were counter attacking with one armd and one mtz div. Heavy fighting ensued, which was decided in our favor by the commitment of the tanks of the 2 Pz Div. As the German Air Force was employed on other sectors of the front on this particular day, the French and British had the run of the air, and they attacked our bridge positions relentlessly. In his vain efforts to destroy our positions he lost more than 100 planes. The 2 Pz Div managed to overrun the French positions on the south bank of the MEUSE, towards FLIZE, and they began the establishment of a new bridgehead near DONCHERY. The 10 Pz Div in the meantime enlarged its bridgehead to the south and to the east.

15 May saw continuation of the severe fighting for the bridgehead and for the BULSON Heights, which controlled the approaches to the MEUSE. Having reached most of our objectives by 1400 hrs, I decided to have the 10 Pz Div and the "GROSS-DEUTSCHLAND" Regt protect our bridgehead while the 1 Pz and 2 Pz Divs swung to the right to disrupt the enemy positions in the west to the extent of assuring a breakthrough in the direction of the Atlantic or Paris. Thanks to my divisional commanders, this move was carried out swiftly and with a minimum of losses. The enemy now committed a Norman inf div and a Spahi brig against us. These troops fought well. In bitter fighting we claimed the heights of BOUVELLEMENT, and the town itself fell to us during the night.

c. BREAKTHROUGH TO THE CHANNEL (16 MAY - 25 MAY)

In order to release the entire XIX Corps for the march through the west, it was decided to have the XIV Pz Corps relieve the 10 Pz Div in the bridgehead south of SEDAN. To offset this favorable development, Gen VON KLEIST suddenly gave the order to halt. I refused to carry out this order, despite warnings from higher Hq. The objectives of all our past exertions were in danger of being lost. A sharp dispute ensued, at the end of which I was granted the concession of 24 hours' freedom of movement.

Early on 16 May I went down to the forward positions of the 1 Pz Div where I found the tired troops asleep. They were alerted and told of the importance of the task before them. They proceeded to show sincere enthusiasm when the order to continue the march was announced. We were to reach MARLY by way of MONTCORNET the same day. Our armored spearhead was brought to a halt solely due to lack of fuel. ST QUENTIN and AMIENS could not escape us; the morale of our troops was high; the losses were small.

During the night of 17 May I once again received the order to halt. My protests brought on a visit by Gen VON KLEIST, at the end of which I laid down my command. Higher Hq intervened, however, and the Corps remained under me. I was forced to stop my advance on 17 and 18 May. There seemed to be concern in regard to my left flank which was directed towards LAON and PARIS. This flank was menaced by the DE GAULLE Armored Div, coming from PARIS, and by eight inf divs commanded by Gen FRERE. Only the tank threat was to be taken seriously, however, because

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swift decisions and movements were not to be expected from the inf .. owing to the methods to which they had been accustomed in peacetime training. In the meantime my advance guards occupied ST QUENTIN, and my left flank was strengthened by tank destroyers and engineers to counter the threat of DE GAULLE's tanks.

On the right, the XXXVIII Corps under Gen REINHARDT had brought its line up to ours, and very close liaison had been maintained between the two corps after reaching MONTCORNET.

We resumed our march on 19 May, and in the evening we were allowed to advance on AMIENS. The 10 Pz Div was again in support of my left flank and so reduced any threats aimed at our extreme left.

My orders for 20 May were for the 1 Pz Div to advance on AMIENS, and for the 2 Pz Div to march on ABBEVILLE. Both divs were to clean up the north bank of the SOMME, to establish bridgeheads on the south bank, and, in addition, the 2 Pz Div was to reach the mouth of the SOMME, and so the Atlantic coast. It was the mission of the 10 Pz Div to secure our left flank along the SOMME.

At 8:40 o'clock in the morning, after a 60 km march, we prepared to storm AMIENS. By noon the city and a bridgehead seven km in depth were ours. I proceeded from there to ALBERT, which had already been taken, and where British batteries were captured while practicing on the parade grounds with dummy shells. I then visited the 2 Pz Div. I ordered this unit to proceed swiftly towards its objectives, and these were reached before nightfall. We had thus achieved operational gains of decisive importance, and it was advisable to exploit those gains with utmost speed. Because I did not know whether we were to aim northwards to deprive the enemy of his ports, or whether we were to drive southwards towards the mouth of the SEINE, I had to take both of these possibilities into account and act accordingly. Unfortunately, a day of action was lost when my orders failed to arrive on 21 May. Orders to proceed to the north arrived on the evening of 21 May. I was forced to turn the 10 Pz Div over to VON KLEIST, who wanted it in reserve. Consequently I had to be content with continuing my drive on CALAIS with the 1 Pz Div, and the drive on BOULOGNE with the 2 Pz Div, on 22 May. My plans to advance upon DUNKIRK with a third Pz div did not materialize.

Our advances of 22 May brought us to the BOULOGNE area, where we made contact with French, British, Belgian, and even Dutch forces. Some of these troops had been instructed to reach PARIS, and others to defend the coastal ports. Fighting continued during 23 and 24 May. On 24 May the 10 Pz Div was again placed at my disposal. I therefore decided to send off the 1 Pz Div, which had reached the area southeast of CALAIS, in a drive on DUNKIRK by way of GRAVELINES, and to send the newly arrived 10 Pz Div against CALAIS in its place.

BOULOGNE fell on 25 May, and CALAIS on 26 May. These were two highly important harbors. Much captured war equipment fell to the XIX Corps, as well as many prisoners, including several generals.

d. DUNKIRK (25 MAY - 4 JUN)

The advance of the 1 Pz Div was halted in the vic of GRAVELINES, due to mounting enemy resistance. After the fall of the Channel ports, I assembled all available forces, namely the 2 Pz Div, the newly arrived LEIBSTANDARTE ADOLF HITLER, the 11 Fusilier Brig, and the "GROSS-DEUTSCHLAND" Regt, for a drive on DUNKIRK.

I do not know why higher Hq made repeated efforts to hold off this attack. Before the drive on CALAIS I had already received orders to let the air force do the job if the attack should not prove entirely free from obstacles. From past experience with the bombing of concrete fortifications, I did not have too much faith in our fliers. Consequently, we took the fortifications ourselves. As for the attack on DUNKIRK, it was first stopped at the banks of the small River AA, near WATTEN, and again on the WORMHOUDT-BERGUES road. We could have practically touched DUNKIRK with our hands, but we had to witness the flight of the British across the Channel to their island on craft of all sizes. The job was left to the Air Force, and 300,000 British troops escaped.

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An invasion of the British Isles was often considered, but for such an operation the following conditions were prerequisite:

(1) The capture of the British Army on the continent.

(2) Preparedness of the German Navy for this task.

(3) Air supremacy, not only on the continent, but over the British Isles, as well.

The British were permitted to escape at DUNKIRK, and the other two prerequisites were not assured in May 1940.

In the meantime, the Belgian and Dutch armies had capitulated; the French troops in Flanders had been destroyed; and a new operational plan to bring the rest of France to its knees had been decided upon.

e. REDEPLOYMENT (5 JUN - 8 JUN)

For the second phase of the French campaign our troops were assembled north of the SOMME and the AISNE and opposite the MAGINOT line from MONTMEDY to the Swiss border.

The staff of Armored Group GUDERIAN was drawn from the XIX Pz Corps. The Group was made up of two armored corps: the XXXVIII Pz Corps, consisting of the 7 Pz Div, the 8 Pz Div, and the 20 Mtz Div; and the XXXIX Pz Corps, consisting of the 1 Pz Div, the 2 Pz Div, and the 29 Mtz Div. Group GUDERIAN was assembled north of the AISNE, in the sector CHATEAU PORCIEN - RETHEL - ATTIGNY, behind a number of inf divs which were already engaged in combat. For the pending attack the group was attached to Gen LIST's Twelfth Army. Although the pz divs had been fighting in the most forward positions during the Polish campaign and in the early engagements in the west, they were now assigned positions behind the inf in order to spare them the heavy casualties inevitable in the establishment of bridgeheads. My pleas to put this plan into practice at the beginning of the campaign had been ignored, and lost time and wasted efforts had resulted.

f. DRIVE TO THE SWISS BORDER (9 JUN - 17 JUN)

The assault over the AISNE was to take place with the establishment of a bridgehead by the inf on 9 Jun. The pz divs were to cross by noon over eight bridges not yet built, achieve a breakthrough, and push on in the direction of LANGRES. Depending upon the development of the attack, a wheeling movement to the west towards REIMS or to the east towards VERDUN remained possible. By 1400 hrs only a small bridgehead had been established near CHATEAU PORCIEN, and in the evening, another one further east, near BARBY. All other attacks had failed. The pz divs were held in readiness behind the inf divs which clogged up the roads. To strengthen our narrow bridgehead near CHATEAU PORCIEN by daylight would have been useless, but during the night I led the main body of the 1 Pz Div across the river, and they went over to the attack towards morning, pushing through AVANCON and TAGNY. We rolled on across the RETOURNE sector and made contact with French tanks north and south of JUNIVILLE towards evening. The 2 Pz Div had reached the AISNE to the right of the 1 Pz Div, but the former could not cut through the RETOURNE sector on the same day. The French still held the AISNE in the vic of RETHEL. A part of the XXXVIII Corps was then committed at BARBY in order to force a crossing to the east.

We continued our attack to the south on 11 Jun. The 1 Pz Div captured LA NEUVILLE and went on from there to the region of the SUIPPES River. The 2 Pz Div crossed the RETOURNE and continued its advance south. The XXXVIII Corps opened the crossing at RETHEL and advanced in the direction of MACHAULT with the 7 and 8 Pz Divs.

The battle in the SUIPPES sector took place on 12 Jun. On the same day the 29 Mtz Div captured MOURMELON-LE-GRAND, and CHALONS-SUR-MARNE fell to the 2 Pz Div. On 13 Jun the Army High Command pressed one order upon another, so that conflicting demands came at the same time for the capture of VERDUN, a pivoting movement to the south, a drive on ST MIHIEL, and again a flanking movement in the direction of LANGRES. The

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divs of the XXXVIII Pz Corps, heavily engaged with French troops falling back from VERDUN, were forced four times to change their drives at 90 degree angles. Thanks to the commanders and the troops concerned, no resulting losses were sustained. The XXXIX Pz Corps continued on its southward drive towards the RHINE-MARNE Canal. Having spent the early part of the day with Gen REINHARDT's troops, I proceeded to visit the 1 Pz Div in the afternoon. One bridge over the MARNE and the Canal fell into our hands intact. The 1 Pz Div, despite fatigue, had to cross the river at night and advance southeast towards ST DIZIER, where a brief engagement with French troops approaching from the east was turned in our favor. I met the 2 Pz Div towards evening before VITRY-LE-FRANCOIS.

On 14 Jun I instructed the 1 Pz Div to advance upon LANGRES, while the other divs of the Armored Group were to battle their way across the MARNE and the Canal. On 15 Jun, in the morning, LANGRES capitulated to advance elements of the 1 Pz Div. I ordered this div to drive on to GRAY-SUR-SAONE the same morning. The 20 Mtz Div of the XXXVIII Corps, which had not yet been committed, was used to secure the left flank by advancing on VESOUL.

Because I had no orders concerning the objectives of the operation after the capture of LANGRES, I sent off a liaison officer by plane to the Army High Command. He returned with instructions to carry out whatever plan recommended itself to my own judgment. I accordingly decided to push on to the Swiss border.

On 16 Jun the 1 Pz Div crossed the SAONE near GRAY and took BESANCON, the other two divs of the XXXIX Corps being aligned on its right. The XXXVIII Corps was committed to the left of the XXXIX Corps. The former was still having heavy encounters with the enemy north of the MARNE, where the French coming from VERDUN and ST MIHIEL were trying to break out to the west. On 17 Jun, through lightning action, the 29 Mtz Div was able to reach the Swiss frontier near PONTARLIER. News of this was at first rejected with a note stating that what most likely was meant was the town of PONTAILLER-SUR-SAONE. Only after I confirmed the fact that I was staying at PONTARLIER myself was the news accepted as the truth.

g. MOP UP AND ARMISTICE (18 JUN - 22 JUN)

After having cut off the enemy forces in ALSACE-LORRAINE and those fighting on the MEUSE from their main supplies, it became imperative to reduce the great pocket which had been created. I therefore proceeded to direct the 29 Mtz Div along the Swiss border through the JURA to the PRUNTRUTER ZIPFEL; I sent the 1 Pz Div to BELFORT via MONTBELIARD, and the 2 Pz Div along the upper MOSELLE to FORT DE RUPT and REMIREMONT. The adjacent XXXVIII Corps was ordered to drive on EPINAL with the 7 Pz Div and to advance on GERARDMER via THAON with the 8 Pz Div and the 20 Mtz Div. This difficult operation was efficiently carried out in one night.

On 18 Jun BELFORT and EPINAL became ours, and with each town a bag of 40,000 prisoners. On the succeeding days until the signing of the armistice the pocket was further reduced. Our armor took the WELSCHEN BELCHEN in the Upper VOSGES and GERARDMER.

In the last days Armored Group GUDERIAN bagged 150,000 prisoners, and the total since 9 Jun was 250,000. I do not recall the number of guns and field pieces that were captured. Only small enemy forces had managed to escape to Switzerland by way of PRUNTRUT. After the armistice the Armored Group was refitted in the BESANCON area.

4. BETWEEN THE FRENCH AND RUSSIAN CAMPAIGNS

a. FRANCE RETAINS SOME POWER

As much as we welcomed the armistice at the moment, it did not bring us closer to peace. It gave the French a number of means for continuing the battle against us:

(1) In the unoccupied VICHY zone there remained an army of 100,000

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men.
(2) The French fleet had not been surrendered to us.
(3) For all practical purposes the French colonies remained actively engaged in war against us.

From the soldier's point of view it would have been necessary to bring the war against France to a complete decision in order to concentrate all our might on the one remaining opponent, England. To achieve this a sincere diplomatic motion for peace, coupled with military operations in Africa, would have been in order. Our forces had been only slightly impaired by the fighting in France and could have continued to fight without let-up. It was not possible for me to voice these opinions, I had to express them privately to occasional visitors to BESANCON, men like Gen RITTER VON EPP and REICHSMINISTER TODT, whom I asked to inform HITLER of my beliefs.

In the meantime Armored Group GUDERIAN had been dissolved and its staff transferred to PARIS and later permanently assigned to BERLIN. Some of my troops remained in France; the others returned to Germany.

b. PREPARATIONS FOR WAR WITH RUSSIA

The annexation of the Baltic States by the Soviet Union upset HITLER greatly. The BERLIN visit of MOLOTOV, the Russian Foreign Secretary, in the autumn of 1940, added a further strain to Russo-German relations. At that time the Soviet Union demanded complete freedom of action in Finland, Rumania, and Bulgaria, as well as in the Dardanelles. HITLER was not in sympathy with these demands. It was in the autumn of 1940 that HITLER decided to go to war with Russia. German Army cadre went to Rumania, and garrisons on the Russo-German border were strengthened. With the decision to wage war against the Soviet Union, Germany's most fateful hour was at hand.

So far Germany had been in a position to avoid a two front war - something which BISMARK had avoided through political concessions, and the very thing which had proved disastrous to us in World War I. But now our political leaders, who had no idea of Russia's war potential nor of that of the western powers, showed utter disregard for the advice of the German Ambassador to MOSCOW and of our military attache there. They were determined to take this fateful step. Having travelled for a few weeks in Russia in 1932 and 33, and having studied Russia's military background, I was in a position to form an independent opinion. I expressed my concern regarding the future course of the war to my former Chief of Staff, Gen VON LIEBENSTEIN, and my Asst Chief of Staff, Gen BAYERLEIN.

There was no military activity in the winter of 1940-41, but in the spring of 41 we acquired the Balkan Peninsula and strengthened our foothold in the Mediterranean. I had no part in these campaigns.

During this time I was engaged in preparing operations for my newly formed Armored Group II for the coming Russian campaign. My command came under that of Gen VON BOCK's Central Army Group. Our Supreme Command was of the opinion that before the end of 1941 we would be able to defeat the Red armies and overthrow the Soviet State. The possibility of a winter campaign was so thoroughly discounted that winter clothing was prepared for only one out of every five soldiers. When the question of the remaining four-fifths of the army was brought up, the answer was that they would be housed in winter quarters and that 60-80 divs were expected to be shipped back to Germany in the late autumn. The great victories in the west had apparently made it impossible for our top leaders to consider these matters logically. Every attempt to raise an objection was rejected and considered a sign of weakness.

5. THE RUSSIAN CAMPAIGN, SUMMER 1941

a. THE PLAN

Three army groups stood ready for the assault on Russia. South of the

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PRIPET, Army Group South was to advance on KIEV and occupy the Ukraine. North of the PRIPET, Army Group Center was to drive on SMOLENSK. Army Group North had LENINGRAD as its objective. From all indications prior to the launching of the assault, the primary objective of our Supreme Command seemed to be the capture of LENINGRAD and the occupation of the entire Baltic area. To achieve this aim armored elements of Army Group Center were to have been diverted to the north after the capture of SMOLENSK. This, however, was never carried out.

b. COMPOSITION OF ARMORED GROUP II

My own command, Armored Group II, started its march across the BUG from both sides of BREST-LITOVSK. Armored Group II was composed of three armored corps:

(1) The XXIV Pz Corps, under command of Gen VON GEYR, and made up of the 3 Pz Div, the 4 Pz Div, the 10 Mtz Div, and the 1 Cav Div.
(2) The XLVII Pz Corps, under command of Gen LEMELSEN, and made up of the 17 Pz Div, the 18 Pz Div, and the 29 Mtz Div.
(3) The XLVI Pz Corps, under command of Gen VON VIETINGHOFF, and made up of the 10 Pz Div, the SS Div "DAS REICH", and the "GROSS-DEUTSCHLAND" Regt.

For the drive on BREST-LITOVSK, I also had at my disposal the three inf divs of the XII Corps. Two more corps came under my command for the crossing of the BUG - this to establish a coordinated command.

c. DISPOSITION OF TROOPS

On the basis of my experiences at the AISNE, I decided to send the four armd divs of the XXIV and XLVII Pz Corps forward at the very beginning. The mtz div of each corps was held in reserve. At first I kept XLVI Pz Corps far behind, in order to spare the few roads and bridges at our disposal. The commitment of this corps was not considered until our penetration had become sufficiently deep to permit swift execution of the corps mission. The XLVI Pz Corps faced probable commitment in the neighborhood of BARANOWITSCHI. The operational goal of Armored Group II was the sector ROSLAVL - JELNA - SMOLENSK. At the end of this phase I was to receive new orders. On our advance we were expected to coordinate our efforts with those of Armored Group III (Gen HOTH), coming from the direction of SUWALKI. Field Marshal VON KLUGE's Fourth Army was to follow up after the crossing of the BUG had been achieved.

d. BATTLE OF BIALYSTOK

Our intelligence in the last days before the attack told us that the Russians had not appeared to notice the gigantic massing of troops that had taken place.

On 22 Jul the difficult crossing of the BUG offered no insurmountable problems, and we began building bridges in the advanced sector of our forward armored divs. There was bitter fighting for the fortress of BREST-LITOVSK, as the enemy had recovered quickly and offered brave resistance.

After crossing the BUG, the forward corps moved along two main roads: towards BOBRUISK via KOBRIN and SLUCZ; and towards MINSK via PRUZANA-ROZANA and SLONIM. On this route heavy fighting ensued with the enemy, who had concentrated the mass of his forces in the BIALYSTOK sector. Our inf, which had originally filled a sector between the two armd corps stayed behind after the third day and was later committed with the Fourth Army. The 1 Cav Div secured our right flank on the northern edge of the PRIPET Marshes.

It became important to stop and destroy the enemy retreating between SLONIM and MINSK. At the same time it was imperative to make contact with Armored Group III and, further, to continue to strike eastward with all our available forces in order to deny the Russians the opportunity of establishing a new front. The first mentioned task fell to the main body of the XLVII Pz Corps and to part of the supporting XLVI Pz Corps, while the entire XXIV Pz Corps and the remaining elements of the other two corps continued to drive to the east. The encirclement and subse-

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quent annihilation of the enemy in the BIALYSTOK area was a complete success.

e. DRIVE TO SMOLENSK

Although battles continued in the rear of our armd spearheads, the latter were able to reestablish communications with Armored Group III and to continue their eastward drive, from time to time beating off vigorous counter thrusts by enemy armor. The Russian T-34 tank, which later became famous, was not yet in use, and the tanks employed by the Russians were incapable of handling the situation. By committing the XLVI Pz Corps in the center of our drive we were able to reach and cross the BERESINA. The great superhighway bridge at BORISSOW fell into our hands intact. After that experience, however, the enemy demolished all bridges, having recovered from the original shock of surprise.

I was eager to reach the DNIEPER and cross it as rapidly as possible in order to prevent the enemy from forming a new front. Despite heavy fighting to the northeast of BORISSOW, I decided to switch the two northern corps to the right so that they could make a crossing near SCHKLOW and KOPYS on 11 Jul. The XXIV Pz Corps, after the capture of BOBRUISK, met heavy resistance near Rogatchev and decided to make a crossing of the DNIEPER further north, near STARYA BYCHOW, on 10 Jul. Between the two bridgeheads there remained MOGHILEV in our rear, still heavily occupied by the enemy because we had been unable to take it by surprise. The inf corps which followed us up managed to bag 60,000 prisoners there. A similar situation resulted at ORSCHA.

The armd corps continued their eastward march on 12 Jul, in the midst of heavy fighting to our front and at our rear. By securing its flanks the XXIV Corps was able to push on over difficult terrain in the direction of KRITSCHEV. The XLVI Pz Corps drove on PRUDKI by way of GORKI. The XLVII Pz Corps continued on its way to SMOLENSK, being heavily engaged by the enemy near ORSCHA and KRASNOYE. SMOLENSK fell to us on the evening of 16 Jul.

On 21 Jul the XLVI Pz Corps reached its objective at YELNYA. On 1 Aug, after the arrival of the forward inf corps, I assembled the XXIV Pz Corps and the VII and IX Corps and launched a concentric attack on ROSLAVL. The town was encircled 3 Aug and taken 4 Aug. By 8 Aug we had captured 40,000 of the enemy, and our bag of guns and tanks amounted to several hundred. Our operational objective had thus been reached. The divs were given a brief rest for maintainance. The XXIV Pz Corps, however, had yet to deal with the enemy on his right flank. In the period between 9 and 12 Aug, Gen VON GEYR was able to form a pocket near KRITSCHEV, and there 20,000 prisoners and a great deal of equipment were captured.

f. KIEV

On 3 Aug I reported to HITLER in BORISSOW. This gave me an opportunity to speak my mind concerning the necessity of bringing up more tanks and spare parts quickly and of resuming operations as soon as possible.

The original plan for a drive on LENINGRAD was dropped, and there followed week-long debates on the question of whether the next operation to be undertaken should be a push towards MOSCOW or a drive into the Ukraine. The opposition facing me after the fighting near ROSLAVL and KRITSCHEV was very weak, and I was interested in the resumption of operations without delay. From my own point of view the next logical step would have been a drive on MOSCOW. My troops held the same opinion. I prepared an attack on VYASMA for 15 Aug in order to eliminate the enemy forces on our front and clear the way for a new drive. I was disappointed when I was instructed to call off this plan. At the same time I was not permitted to undertake an offensive in the direction of BRYANSK, where there would have been no enemy resistance at all. I was given the order to return to GOMEL with one or two pz divs and support the advance of the Second Army. Because of the difficulties which this operation presented in regard to the employment of tanks, I was not in favor of it.

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Ref No SAIC/FIR/12
26 Jul 45

An exchange of opinions ensued, and I was called to BORISSOW and then to the FUEHRER Hq in East Prussia on 23 Aug. During the conversations there with HITLER it developed that a drive on MOSCOW was definitely out. In its stead an attack was ordered on KIEV. With HITLER's approval, it was decided to employ my entire armored group for this operation. Later, however, the Army High Command, having in mind a push on MOSCOW, held the XLVI Pz Corps in reserve in the sector between SMOLENSK and ROSLAVL Thus I had only two corps at my disposal for the pending attack.

We began operations 25 Aug with a drive to the southeast towards UNETSCHA and POTSCHEP. There were no hard-surfaced roads in our forward sector, so the advance was very difficult. At the banks of the DESNA and to the southeast our strength proved to be insufficient for a successful conclusion of the operations there. The XLVI Pz Corps and the SS Div " DAS REICH" returned to my command, along with the 1 Cav Div. With the support of these units we were able to make the crossing of the broad river and take the important rail center of KONOTOP as well as BACHMATZ and ROMNY. A junction with the armored group of Gen VON KLEIST was to have been achieved near ROMNY, but VON KLEIST's troops were stopped by the sudden setting in of bad weather. We continued our advance past LOCHWITZA and far enough to the south to complete the encirclement of enemy forces massed in the KIEV sector. The Russians were forced to capitulate there. Enemy efforts to break through our lines from the east brought Russian forces to within 800 yds of my Hq in ROMNY, where they were finally repulsed. The battle for KIEV ended 24 Sep.

g. BRYANSK AND OREL

We were surprised that the Russians had resisted and permitted themselves to be surrounded in the KIEV sector, because they had known of our advance since 8 Sep. A captured Russian field officer later explained to us that plans had been made for withdrawing the decimated forces of the Russian army group in question, but that an order from STALIN had compelled them to return and counter attack. STALIN never again repeated this mistake, but we later acted on the assumption that the same tactics would be employed.

The battle for KIEV was followed by an attack on the enemy's fortified positions around BRYANSK and VYASMA, in preparation for the drive on MOSCOW. My armored group was redesignated Second Pz Army. The XLVI Pz Corps was transferred to the army on our left, and in its stead we received the XLVII Pz Corps, composed of the 9 Pz Div, the 16 Pz Div, and the 25 Mtz Div. Two inf corps also joined my command.

Although the general attack by Army Group Center did not begin until 2 Oct, my own divs set out 30 Sep in a drive on OREL and BRYANSK through the GLUCHOW and KONOTOP sectors. We thus were able to receive better air support, and we hoped to avoid being caught by bad weather. Weather conditions were of the highest importance because there were no hard-surfaced roads along our route, a matter of life and death to mtz troops operating in Russia.

The attack of 30 Sep led to a breakthrough 20 km in depth. On 1 Oct we were able to force a penetration. On this day the spearhead of the XXIV Pz Corps reached SEVSK; on 2 Oct it reached DIMITROVSK; and, after a bitter battle, it arrived at OREL on 3 Oct. To the left of the XXIV Corps, the XLVII Pz Corps took KARACHEV on 5 Oct and BRYANSK on 7 Oct. The enemy operating to our front was thus dispersed. The enemy army group south of BRYANSK was surrounded by elements of the XLVII Pz Corps, by an inf corps bringing up the rear, and by elements of the attacking Second Army north of the armored group. The group north of the KARACHEV-BRYANSK road was surrounded by the 18 Pz Div, the GROSSDEUTSCHLAND Regt, and elements of the Second Army. The enemy, beaten at OREL, was pressed to the north by the XXIV Corps, while the XLVIII Pz Corps and an inf corps secured the Army's right flank against strong enemy forces in the KURSK sector.

The encircled enemy offered desperate resistance. Some Russians were able to break out and interfere with our rear communications. In addition to this, 4 Oct saw the arrival of the Russian autumn season, with heavy snow falls and an abundance of rain, and the resultant bad road conditions stopped our advance. Only full track vehicles were able to

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overcome the mud. These were used to tow wheeled vehicles and were consequently greatly overburdened. The hard-surfaced roads between OREL and TULA and between OREL and BRYANSK were rendered impassable owing to excessive use. Many miles of corduroy roads had to be built in order to maintain the transport of supplies and to make possible the movement of troops. As a result of the demolition of bridges over the DESNA, the railway line to OREL did not operate until Nov. In the interim we had to make the most of facilities at our disposal.

6. THE "AUTUMN" CAMPAIGN, RUSSIA (NOV-DEC 1941)

a. EARLY DIFFICULTIES

Because of the conditions mentioned above, we were not able to resume the drive on TULA until 22 Oct. On that day the XXIV Pz Corps crossed the SUSHA River to begin a push towards MZENSK and the heights to the northeast of that town. All the other corps were still engaged in reducing the OREL pocket, refitting their divs, and securing supplies. It was the supply problem which was chiefly responsible for slowing the advance of the XXIV Pz Corps. Our progress in the direction of TULA was slow and spasmodic. The intensity of the fighting increased noticeably when the Russians began to employ large numbers of T-34 tanks. These accounted for a high percentage of our casualties and brought about a change in our tactics.

b. PLAN FOR DRIVE ON MOSCOW

On 13 Nov the Chiefs of Staff of the armies in the field were called to a conference with the Chief of the Army General Staff to receive instructions for what the High Command termed the "Autumn Campaign". The orders disclosed the intention to achieve the capture of MOSCOW before the end of 1941. The plan called for a double envelopment of the Russian capital, followed by a further breakthrough to the banks of the VOLGA near GORKI (NOVO-NOVGOROD). We were greatly surprised to learn that such a plan was being considered. It proved the inability of some of our high leaders to grasp the full meaning of war on the actual fighting fronts.

On 22 Nov I reported to Field Marshal VON BOCK, the commander of the Army Group, and explained the impossibility of the plan of attack. VON BOCK informed me that he had already protested against the plan to the High Command. He immediately called Field Marshal VON BRAUCHITSCH on the telephone. VON BOCK and I proceeded to give VON BRAUCHITSCH a picture of the situation at the front - our supply problem, the lack of winter clothing, and the arrival of new and fresh enemy formations from the Far East. I received the vague instructions to continue the march on MOSCOW for the time being in order to reach a preliminary line east of EPIFAN and KASHIRA. This line could not have been defended. My conversation with VON BRAUCHITSCH convinced me that the latter was not free to exercise his own judgment in the matter. He was obviously tied down by certain convictions and ideas of HITLER's concerning our chances in a winter campaign. Our original suggestion of having the troops dig in for the winter was overlooked entirely, and there was no mention at all of any plan to send some of our forces back to Germany. The enemy had simply remained too strong and too mobile to permit such a step. Reports from the home front press which expressed a contrary point of view were received with skepticism. The advance continued despite 20 degrees below zero temperatures and heavy snowfalls.

c. DISPOSITION OF TROOPS

For the attack on MOSCOW a new disposition of our forces was worked out. The two corps securing the road to KURSK were incorporated in the Second Army, which had been moved to the OREL sector. The LIII Corps and the XLIII Corps were added to the Pz Army, with the two original Pz Corps remaining as before. The two inf corps approached slowly from the BRYANSK pocket; they could rarely make more than ten km on each day's

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march. They were not in a position to make greater progress because of the entirely unfavorable terrain and the lack of adequate winter clothing. They possessed practically no underwear, and the condition of footwear was pitiful. At times supplies could only be brought in by air.

By the beginning of Dec the Pz Army, spearheaded by the XLVII Pz Corps, reached the vic of MICHAILOV, and north of EPIFAN the LIII Corps reached STALINOGORSK. The XXIV Pz Corps entered the sector northeast and north of TULA and south of KASCHIRA. The "GROSSDEUTSCHLAND" Regt and one inf div claimed the heights to the south of TULA, and the XLIII Corps achieved a crossing of the UPA west of TULA.

d. TULA

An attack on TULA from the south was impossible, owing to the strong concentration of enemy troops there and to the heavy enemy mine-laying activity south of the city. Therefore it was my intention to take TULA by attacking it from the north and northeast with the XXIV Corps, and, to assist in this, to gain access to the TULA-SERPUCHOW-MOSCOW road. In coordination with this drive, the XLIII Corps, after crossing the UPA, was scheduled to attack the city from the west together with the left flank of the XXIV Pz Corps, supported by one inf div. The XLVII Corps was to secure the drive's east flank, while the somewhat incapacitated LIII Corps was to support the rear of these mobile units. The 36 divs of the Fourth Army, deployed on our left were to begin the drive on MOSCOW while we attacked TULA. The Second Army, on our right, was not permitted to continue its advance to the east.

The launching of the Fourth Army's attack was postponed until 4 Dec. It then got under way with only a handful of companies on the extreme right. On the eve of the attack the temperature dropped to 35 degrees below zero. Coupled with the failure of the Fourth Army's attack, this development prevented the XLIII Corps from achieving more than negligible gains in its own drive. The outstanding divs of this corps literally froze together. The inf suffered enormous casualties from the cold. The wounded who could not be evacuated within 30 minutes usually died. All automatic weapons failed to function, and a few hours were required to start the tank motors.

On 5 Dec another affort was made to carry the attack to its objective Only slight progress was made, however. Towards evening, with the appearance of new enemy formations from the east at MICHAILOV and KASCHIRA, and from the north at SERPUCHOW, and with the Fourth Army eliminated, I was forced for the first time in this war to break off an attack.

e. RETREAT

The harassed units retreated along the general line EPIFAN - STALINOGORSK - the heights south of TULA - the UPA sector. I believed that we could hold this front, but the fighting capacity of the LIII Corps, which had already been engaged for several days in fortified positions near STALINOGORSK, was no longer sufficient to withstand the thrusts of the fresh Russian troops. The Corps sector was penetrated, and a retreat by the entire Army became necessary.

The speed of the retreat was determined by the infantry's relative immobility and by the condition of the roads. Consequently I decided to move the two Pz Corps along the main TULA-OREL highway in the direction of PLAWSHOYE, while the infantry corps was to be moved southeast across the OKA River. Owing to diminishing resistance by the infantry, I was unable to halt the retreat in the PLAWSKOYE area. The withdrawal had to continue towards TSCHERN and could only be brought to a stop behind the SUSHA-OKA sector during the Christmas holidays. The 3 Pz Div and the 4 Pz Div were then put in reserve. Ever since the failure at TULA a gap had existed between the Pz Army and the Fourth Army on its left. We were not in a position to fill this gap. The Fourth Army sent one inf div of four bn strength to plug the gap. This was insufficient, and the threat created by the existence of the gap remained for some time.

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Ref No SAIC/FIR/12
26 Jul 45

The failure of the drive on MOSCOW involved not only the Second Pz Army and the Fourth Army, but the Third Pz Army as well. On the same day that we began our retreat, the Third Pz Army was forced to withdraw its spearheads north of MOSCOW from their far advanced positions. This was done because the operation was conceded no chance of success. The failure of these offensives coincided with the entry into the war of Japan and the United States.

f. CONFERENCES

On about 12 Dec I had the opportunity of discussing the sericusness of the situation with the Commander-in-Chief of the Army, in the presence of Field Marshal VON KLUGE, the commander on my right. I had hopes that the C-in-C would explain the situation to HITLER and thus bring about a change in plans. On 15 or 16 Dec, however, Field Marshal VON BRAUCHITSCH was relieved of his command. The FUEHRER assumed direct command over the Army and transferred a number of secondary duties to Field Marshal KEITEL. On 16 Dec I was able to speak to the Adj of HITLER's Staff, Gen SCHMUNDT, at the OREL airport. I impressed upon him the urgent necessity of changing our mission. Shortly thereafter, Field Marshal VON BOCK was taken sick and was replaced as commander of Army Group Center by Field Marshal VON KLUGE.

As telephone communications with FUEHRER Hq were very bad, I flew to East Prussia on 20 Dec to give HITLER my personal report. Once again I gave the FUEHRER a detailed description of events at the front and of the condition of my troops, who were desperately in need of winter clothing, ammunition, and fuel, and who, despite a determined will to fight, were not able to fulfill their mission. I also mentioned the fact that our losses due to the cold were greater than those inflicted upon us by the enemy. The FUEHRER, who always prided himself on his front line service, displayed no understanding whatsoever of these things. He accused me of showing too much sympathy for my soldiers. His orders for the continuation of the battle were impracticable. My own suggestions on this subject did not satisfy him. Finally, when I suggested the replacement of some of the staff officers at OKH and OKW with men who would show more understanding of the troops, I did not acquire any new friends in those circles.

g. REMOVAL OF COMMANDERS

After my return to my troops I tried to carry out orders to the best of my ability. These called for the holding of all possible territory. During Christmas the weakening LIII Corps was unable to hold its ground, and Field Marshal VON KLUGE accused me of insubordination. On the basis of this accusation, and on the grounds that I had made false reports on the situation, I was relieved of my command. My request for an investigation of the charges was refused. Gen SCHMUNDT's on-the-spot check up proved that the charges were without foundation, but I was not reinstated. I was recalled to the Commanders Reserve of the OKH in BERLIN and remained there for 14 months of inactivity. This led to a heart ailment from which I suffered greatly during Dec 42 and Jan 43.

Unfortunately, I was not the only victim of the winter campaign. A large number of generals, particularly from Army Group Center, disappeared into the Commanders Reserve. Most of them were never heard of again. The usual reasons for disposing of these upright and experienced men who had ventured to express their opinions was their outspoken criticism of amateur leaders in the High Command who were responsible for a tremendous wastage of human lives. If the dismissed officers proposed another investigation of their cases or criticised the government, there were unrestrained outbursts of anger. They were threatened with dismissal from the Army without uniform or pension. That such events could occur was due to the abolition of the German Law in the spring of 1942. From that time onwards sheer arbitrariness reigned, an unlimited dictatorship, which the so-called German REICHSTAG unanimously sanctioned.

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Ref No SAIC/FIR/12
26 Jul 45

7. RUSSIA, 1942, TURNING POINT OF THE WAR

Despite our heavy losses during the extremely hard and long winter, the fighting on the eastern front during 1942 afforded us a number of successes. It carried the German armies almost to the Caspian Sea, to the crest of the Caucasus, to the Volga near STALINGRAD, and northwest of there to the DON. Rumanian and Italian formations held long stretches of this vast front. In equipment and fighting spirit they were not equal to the Germans.

Since 1941, as a result of the landing of German troops in Lybia, Africa became a new theater of German operations. I played no part in these events, but I realized in Sep 42 that the force of the German offensive had weakened so much as to entirely change the general picture of the war. We were greatly overstrained.

Because of my heart ailment, I would have been justified in retiring. When I was called to the FUEHRER in Feb 1943, however, I decided to overlook personal considerations in view of the plight of our armies, which had lost 300,000 men at STALINGRAD.

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III

HISTORY OF OPERATIONS, FEB 1943 - 20 JUL 1944

(During this period Gen GUDERIAN was Inspector-General of all Armored Forces)

1. FUNCTIONS OF INSPECTOR-GENERAL OF ARMORED FORCES

At the conference with HITLER, mentioned above, the FUEHRER told me that a guiding hand was needed to ameliorate the bad condition of our armored troops. For this purpose he had decided to appoint an Inspector-General of all Armored Forces, a post which would come directly under his own supervision. The special responsibilities of this office were the organization, reequipment, and training of our tank forces. He charged me with this task. I believe that I solved the problem to the best of my ability, despite encountering material and productional difficulties from the very beginning. I had no influence on the conduct of the war. Nevertheless, I made numerous efforts to prevent the faulty application of armored warfare, because our shortages in production and manpower made an economical expenditure of forces urgently necessary.

2. SPRING AND SUMMER 1943. KURSK, KIEV, AND THE CRIMEA

Despite heavy setbacks in the winter of 1942-43 and the early spring of 43, we nevertheless were able to strengthen the front between KHARKOV and OREL. Around KURSK the Russians drove a wedge to the west. The Chief of the Army General Staff, after consultation with Army Group Center and Army Group South, wanted to pinch off this wedge by means of a double envelopment. The enemy, aware of our tactics, secured his flanks with heavy concentrations of AT guns and arty, minefields and other obstacles. Gen MODEL in particular reported receiving information regarding Russian defensive preparations. Our pz divs, which were to be entrusted with the main effort of the attack, were just beginning to recover from losses inflicted upon them during the winter and spring. In view of these facts, I could not advocate an attack which gave such questionable promise of success, and which would surely be very costly. Towards the end of April I stated my views in a report to HITLER. These were his exact words in reply, "You are quite right. It pains me to think about it, too."

I pleaded with HITLER to call off the attack. Field Marshal KEITEL, who was present, entered the discussion, saying that the attack would have to take place for political reasons. I expressed disbelief that the taking of KURSK would have any political significance. In early May HITLER called a conference in MUNICH at which the Chief of the General Staff and Field Marshal VON KLUGE expressed themselves as being in favor of launching the attack. Field Marshal VON MANNSTEIN did likewise

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with certain reservations. I opposed it, and I was not called to attend another conference during June. It was decided to launch the attack on 15 July.

The operation failed with heavy losses, our tanks in particular suffering severely. The enemy had made thorough defensive preparations, staggering his forces in depth, and taking into account the elements of space and time. Following the successful repulse of our attack, the enemy himself launched an assault, pushing us back across the DNIEPER i some places. KIEV was lost, and the Russians continued their drive beyond KIEV to the west. They immediately proceeded southward to cut off the CRIMEA by capturing MELITOPOL and the Straits of PEREKOP. We managed to retain one bridgehead on the lower DNIEPER near NIKOPOL.

It was planned to retake KIEV and, by breaking out from the NIKOPOL bridgehead in the direction of MELITOPOL, to form a junction with our forces in the CRIMEA. Three new pz divs were sent to participate in these operations. I proposed using all available armored forces of the lower DNIEPER, from the NIKOPOL and KRIVOIROG sectors, in an attack by seven pz divs, first on KIEV, next on KRIVOIROG, and finally an advance with all divs through NIKOPOL in an attempt to free the CRIMEA.

My plan was rejected, and the three new pz divs were thrown into the fighting piecemeal as they arrived on the trains. A severe setback followed. KIEV was not reached; NIKOPOL could not be saved despite the fact that one pz div had been kept in the bridgehead. The chance of linking up with the CRIMEA was lost forever.

3. DEFENSIVE WARFARE, JAN-JUL 1944

a. FORTIFICATIONS

I saw HITLER privately in Jan 1944 and attempted to convince him of the necessity for building fortifications on the eastern front, perhaps in the BUG-MEMEL sector. This attempt failed. He told me that he had built greater fortresses than any other man in history, as demonstrated by the West Wall and the Atlantic Wall, but that there was insufficient material, manpower, and transportation available for the construction of fortifications in the east. Furthermore, HITLER stated that our front line generals would desire to withdraw to any line of concrete fortifications that might exist. He was quite obsessed with this idea. He completely distrusted our generals and the General Staff, and, in the course of time, he became imbued with the same sentiments towards other agencies as well. In the end he became utterly obsessed by it. Up to Aug 44, no fortifications of any kind had been constructed in the east, and by that time it was too late. At that time HITLER also rejected my idea of calling up a home guard similar to the "LANDSTURM" of 1813.

Speaking of fortifications, it should be mentioned that those in the west represented only a linear defense system. Important rear areas, such as ANTWERP, PARIS, VERDUN, EPINAL, BELFORT, METZ, STRASBOURG, COLOGNE, COBLENZ, and MAINZ, remained unfortified despite the fact that four years had passed during which this could have been accomplished.

b. TANK FORCES FOR DEFENSE IN THE WEST

In Jan 44 I considered it my primary duty tosee that adequate tank forces were available for the pending Anglo-American invasion of the continent, which was expected in May. In Dec 43 I had newly formed the Pz LEHR Div and begun the reorganization and reequipment of the 21 Pz Div, which had formerly possessed only captured French tanks. The 12 and 17 SS Pz Gren Divs were also in France. Other tank forces would have to be brought to the west from the east. These required refitting and would have to receive new training to prepare them for the coming operations. At the time of the invasion, the 2, 9, 11, and 116 Pz Divs, and the 1, 2, 9, and 10 SS Pz Divs had come to the west from the eastern front. Because of transportation difficulties, the training could not be completed before the invasion.

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Ref No SAIC/FIR/12
26 Jul 45

c. TANK STRATEGY

Even more complex than the problem of rallying the necessary forces was the question of their employment. There were wide differences of opinion on this subject. It is strange that Germany, which had brought new and sweeping tank tactics and strategy into the world, should be beaten at her own game. In conjunction with Gen VON GEYR, Commander of Tank Forces in the West, I advocated the employment of our armor to the rear of the probable invasion front, rather than at the outset of the invasion or directly behind the Atlantic Wall. We would thus guarantee strong, mobile, reserve forces. With such reserve strength, the enemy could have been met with coordinated resistance no matter where his landings took place. The invaders would also have been denied the support of his naval batteries. Field Marshal ROMMEL, however, who commanded the defense of the Atlantic Wall, claimed that he had exact knowledge of the landing place, and he wanted the armor in the immediate rear of the Atlantic fortifications. An additional number of pz divs was held in reserve by the Operations Staff, OKW, against the possibility of an invasion of southern France. The FUEHRER was unwilling to listen to my opinion on the matter, feeling that he should follow the advice of the field commander, ROMMEL. Field Marshal VON RUNSTEDT, the Supreme Commander in the west, was also unable to find an ear for his opinions. His ideas came very close to my own. From the confusion of strategy and orders in the west, no one was able to formulate a clear-cut program. We paid for this with our defeat.

d. THE ALLIED LANDING IN NORMANDY, 6 JUN 1944

The Allies landed in Normandy on 6 Jun. An airborne div landed in the sector of the 21 Pz Div, the only available pz div in this sector. The 21 Pz Div attacked immediately, but without achieving complete success. The landings could not have been prevented in any case, because of the enemy's air supremacy and his overwhelming naval arty. Our own air forces were practically unable to appear over the battle field and were incapable of hampering the operations of the British fleet which had anchored off the coast. Our Navy did nothing to interfere with their operations in any way.

Primarily we lacked operational reserves. The pz divs, after arriving in the landing area, were crushed in local commitments, and in the rain of bombs and the fire of naval guns. As a result of these tactics our leaders were deprived of the sole means of an active defense further inland. The gallantry and bravery of our tank forces could not neutralize the failure of our Navy and Air Force and the stubbornness of our high leaders.

e. DISSENSION, SPRING 1944

On 22 Jun the Russians began their summer offensive against Army Group Center, causing a complete collapse. The whole of the eastern front was thoroughly shaken.

In this serious situation our leaders seemed unable to find any means of relief other than undertaking a big switch in generals. The Supreme Commander in the West, VON RUNSTEDT, the Commander of the Pz Army in the West, Gen VON GEYR, and Field Marshals VON KLEIST, VON MANNSTEIN, and BUSCH in the east were sent to the Commanders Reserve. Their replacements were not necessarily improvements. To some extent they endeavored to gain HITLER's favor even by actions which disregarded the welfare of their subordinates.

I made a number of efforts to get in touch privately with certain political personalities because of the increasingly serious situation. I had thought it possible to rely upon these people. I sought their cooperation in trying to secure better leaders and in initiating peace moves. I was disappointed in both these aims. Some of these people thrived on illusions not unlike those which HITLER himself professed. HIMMLER is an example of this type. Some, like Dr GOEBBELS, were afraid

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to approach HITLER concerning an improvement of conditions. The Foreign Office had practically ceased to function. It simply carried out orders, and it had severed all lines of communication with neutral countries as well as with enemy countries. Successful cooperation with one's colleagues was impossible to achieve. Neither Field Marshal KEITEL nor Gen JODL could be persuaded to seek changes in the High Command. This was in spite of the fact that existing leaders were inadequate and had brought us one defeat after another. A general at the front served as scapegoat every time. The number of generals in the Commanders Reserve increased steadily. HITLER's criticisms of the generals' activities also multiplied. HITLER failed to consider that with each new severity and injustice he contributed to the breaking of the backbone of those who remained.

f. THE 20 JULY PUTSCH

The seeds of despair which led to the assassination attempt of 20 Jul had grown in dangerously fertile soil. The attempted PUTSCH failed, and all participating parties and their accomplices were condemned to death or committed suicide.

HITLER's mistrust now reached extremes and the miracle of his survival gave him greater faith than ever in his "mission". He shut himself up in his bunker, engaged in no further private talks, and had every word of his conversations recorded. He lost himself more and more in a realm of the imagination which had no basis in reality. Every free expression of opinion, and every objection to his frequently incomprehensible views evoked an outburst of rage on his part. He lost his capacity to listen to a report to the end. His criticisms became stronger and his actions more drastic all the time.

Among those who lost HITLER's favor as a result of the 20 Jul incident was Gen ZEITZLER, Chief of the General Staff. Although it could not be proved that he had any knowledge of the plot, he was relieved of his command. Without being consulted, I was entrusted with the performance of his duties.

IV

HISTORY OF OPERATIONS, 21 JUL 1944 - 1 APR 1945

(During this period Gen GUDERIAN was Chief of the General Staff)

1. DECLINE OF POWER OF THE HIGH COMMAND

a. POWERS OF THE CHIEF OF THE GENERAL STAFF

Since the dismissal of Gen HALDER in the autumn of 1942, the Chief of the General Staff could lay no real claim to the title. Gen ZEITZLER had to satisfy himself with the supervision of operations in the east from the Black Sea to the Gulf of Finland. He did not in reality exercise a command function. The commanders of the army groups, all older men than he, were directly under the FUEHRER. All other theaters came under Gen JODL's Operations Staff, OKW. The Chief of the Army General Staff was charged with supervision of supplies for all fronts (through the Quartermaster General), supervision of the mapping services, intelligence concerning foreign armies, the War Academy, and a number of lesser functions. Thus by the time I was informed that I was to take over the duties of the Chief of the General Staff, on 21 Jul 44, the powers of the office by no means corresponded to the high title, and it can be said that I was never the full-fledged Chief of the General Staff

b. POWERS ASSUMED BY HITLER OR DELEGATED TO THE SS

These vestigial powers of the Chief of the General Staff were delegated to me in addition to my duties as Inspector General of the German Armored Forces. I attempted to have some of the original powers restored to the office, but these efforts met with failure. HITLER assumed all

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important powers himself. I was forbidden to hand in my resignation or to request relief from duty, as my predecessor had attempted to do five times. Although all this was communicated to me in a friendly manner, it was clear that HITLER would not permit stronger leadership in the Army. On the contrary, through the creation of the so-called VOLKS-GRENADIER Divisions, with their separate officers' corps and their wide-spread influence through REICHSFUEHRER SS HIMMLER, he clearly wanted a wider distribution of authority, and therewith a loosening of the Army's power. The increasingly powerful role played by the head of the SS in military affairs suggested that some day the whole Army would be played into his hands. In Gen BURGDORF, Chief of the Army Personnel Section, both HITLER and HIMMLER found a willing tool for achieving this end. After the death of Gen SCHMUNDT, Gen BURGDORF took over the former's powers and helped to bury the old German Officers Corps, and with it the German Army. Field Marshal KEITEL and Gen JODL did nothing to prevent these things.

If the planned reorganization had at least been carried out swiftly and completely, it might possibly have contributed to a stiffening of military leadership. HITLER's great distrust prevented this, however, and the doom came slowly and bit by bit.

HIMMLER became the successor to Gen FROMM, who had long been a prisoner and who was finally shot in connection with the 20 Jul PUTSCH, assuming command of the Replacement Army. At the same time he was C-in-C of an army group on the Upper Rhine, and, later, on the VISTULA and on the ODER. The result of holding so many offices was that none of them were thoroughly attended to. His military leadership showed clearly the amateur schooling he had received, as indicated by his improvised staffs in which untrained SS men occupied the main desks. Apparently this was the way he was being prepared for the position of C-in-C of the Army.

c. REORGANIZATION OF THE GENERAL STAFF AFTER THE 20 JUL PUTSCH

Owing to the number of leading Staff Officers who had been involved in the assasination attempt, or who had been injured or killed in the explosion, it was necessary to undertake a complete reshuffle at General Staff Hq. This in itself was not a bad thing. The main disadvantage lay in the Party's way of handling the affair, and in the loss of prestige by the Army High Command which came as a result. Dr LEY, for example, seized the opportunity to make a bitter attack on the entire Officers Corps, which felt absolutely free of guilt, and which, neither at the front nor at home, suspected the confusion at FUEHRER Hq or in the govt. Against those connected with the assasination attempt a sentence devoid of honor was pronounced - death by hanging. Their families were also held responsible, and spying and denunciation increased. The number of death sentences was extremely high. The assasination plot was connected with Gen VON SEYDLITZ's activities in Russia, and the reverses on the eastern front, and later those in the west as well, were attributed to a conspiracy. All these suspicions and doubts were ncurished and publicized by the Party, and as a result the people's wrath against the authors of our misfortunes was misdirected. That these occurances made an unfavorable impression on our allies as well as our enemies is readily apparent.

2. DETERIORATION OF THE GERMAN MILITARY POSITION (21 JUL 44 - 1 JAN 45)

a. COLLAPSE IN THE EAST

The situation on the fighting fronts was no better than the situation at home. The eastern front, which was my immediate concern, for the most part no longer existed after 21 Jul. The Finnish capitulation freed large enemy forces for employment against Army Group North, where they forced an entry into Esthonia and Latvia soon after the Army Group had with great difficulty reestablished an unbroken line of communications with the REICH. As all subsequent evacuation and regrouping of forces proceeded too slowly, the Russians succeeded in forcing a new penetratio

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near SCHAULEN which led to the complete encirclement of Army Group North and the isolation of MEMEL.

Army Group Center had suffered losses totalling 22 divs, and with each new day the enemy was able to pierce those sectors where resistence still continued. After we had succeeded in steadying the northern and central portions of the eastern front by drawing upon the mass of our armored troops stationed in Rumania, the Rumanian front collapsed. In the case of Rumania, HITLER had made an exception and permitted a withdrawal to the line GALATZ - FOCSANI - the CARPATHIANS. Army Group South did not expect Rumania to collapse, however, much less go over to the enemy. The German Foreign Minister had asked for one pz div to occupy BUCHAREST and to serve as protection for the ANTONESCU govt, but the WEHRMACHT Operations Staff had refused to satisfy this demand by sending the sole pz div still available in the Balkans. The Rumanian capitulation resulted in the encirclement of strong forces of Army Group South in the forward sector of the Rumanian front, with a total loss of 16 divs and the serious impairment of the remainder. The impact of this defeat caused the defection of Bulgaria and a stiffening in the attitude of Turkey. The Balkans and the Aegean Islands now had to be evacuated with the greatest speed, after the WEHRMACHT Operations Staff had refused for months to employ units from this area in more critical sectors.

HITLER's hope that strong Rumanian and Bulgarian forces would volunteer to continue fighting on our side despite their governments' actions was not fulfilled, and neither was the hope that the Finns would continue to resist the Bolsheviks. The FUEHRER expected a Finnish force of about 60,000 and two to three Bulgarian divs.

b. HUNGARY

It again became possible to stabilize the eastern front north of Hungary and approximately along the following line: DUKLA Pass - TARNOW - the VISTULA River on both sides of WARSAW - the NAREW River - the East Prussian frontier - the MEMEL River on both sides of TILSIT. It had to be kept in mind, however, that this front had only a very weak foundation because of its lack of depth and our dire need of operational reserves. In Hungary itself fierce fighting continued, with the Hungarian elements rapidly losing their fighting capacity, and with no sufficient German reserves available for their support. The HORTHY govt was replaced by the SZALASI regime.

c. EMERGENCY MEASURES

As I was not able to secure any new troops for the eastern front, because the FUEHRER wanted all available forces committed in the west, I had to seek new ways of strengthening the front. To achieve this end I ordered the arming of eastern fortifications, the building in depth of strategic positions, the calling up of fortress units of all kinds, and, finally, the establishment of the VOLKSSTURM. The construction of fortifications and positions was performed chiefly by volunteers, mainly women and children, who worked steadfastly long into the winter with admirable patriotism and devotion to duty. It was impossible to complete this work. All modern guns and nine-tenths of the available fortress units which were to have been used in the eastern fortifications were transferred to the west , where a collapse had been threatening since autumn. There remained in the east only small calibre A/T guns and captured enemy pieces for which little ammunition was available. To replace the troops who had been transferred to the west together with their guns required long months of labor. There was not enough time, and the majority of replacements were not fit for service in the field.

HITLER finally transferred to the Party the responsibility for mobilization of the VOLKSSTURM. This resulted in Party interests becoming involved, particularly in the selection of commanders and cadre. An additional difficulty was a shortage of weapons.

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To strengthen the fighting power of the infantry new automatic weapons were issued. A new T/O was introduced for inf divs to increase the number of combat troops by reduction of the number of rear echelon personnel.

The army groups on the eastern front were fully in accord with these measures. Among the high commanders a spirit of comradeship and close cooperation prevailed. Unity among commanders partly made up for the lack of organizational efficiency.

d. THE ARDENNES OFFENSIVE

HITLER placed all his hopes on the success of the ARDENNES offensive, which he had planned himself. The drive was originally scheduled to start in Nov. All available forces and supplies were gathered for it from Germany. With this in mind, I had thought it necessary to put aside my grave concern over the eastern front, and work for the good of the over-all conduct of operations. I hoped to be able to muster reserves from the west in time to meet the great Russian offensive which was expected as soon as the ground became hard-frozen.

During several talks with HITLER, I called to his attention the fact that the eastern territory still in our hands was of supreme importance to our food supplies. I also mentioned the importance of Silesia to our industrial war potential. He always had the same reply - that the RUHR was more important than Silesia, and that if ground had to be lost it could better be spared in the east than in the west.

The dragging pace of preparations delayed the start of the offensive in the west until 16 Dec. By 20 Dec it had already become apparent that, despite initial gains, a major breakthrough was impossible. On 24 Dec I went to see HITLER for the purpose of obtaining reinforcements for the east. Typical of the attitude I encountered was HIMMLER's remark that everything had been going well since Nov. When I told him of the coming Russian offensive, which I expected to begin in Jan, he smiled his disbelief.

3. FINAL DISINTEGRATION IN THE EAST (1 JAN - 28 MAR, 1945)

a. PREPARATIONS FOR THE RUSSIAN OFFENSIVE

The reports concerning Russian plans for a great offensive were confirmed during the next few days, and it was believed that 12 Jan had been set for the opening assault. Following the enemy's successful crossing of the DANUBE south of BUDAPEST, his continuous attacks had resulted in the encirclement of the city on 24 Dec. The pleas of Gen BALCK, CG of the army there, for permission to retire from the east bank of the DANUBE in order to make an effective stand on the west bank were denied. To relieve the garrison in BUDAPEST I was forced to transport one inf div from East Prussia, two SS pz divs from the NAREW, another pz div from Galicia, and an inf div from Italy. The eastern front north of the Carpathians was thus weakened by a considerable loss of reserves. The front north of WARSAW, which had hitherto frustrated all Russian attempts to make a breakthrough, suffered most severely from the loss of its best combat units.

On New Year's Eve I was present at a conference with HITLER which took the form of a lecture. Before making known the pressing need for reserves, I consulted with Field Marshal VON RUNDSTEDT. The latter, understanding the needs of the eastern front, admitted that he could spare three inf divs, an arty corps, and two rocket projector brigs. During the conference Gen JODL declared that he could spare nothing. HITLER was impressed, however, by the remark that RUNDSTEDT had named units which he felt he could do without, and I received the units mentioned, together with one div from Italy. Almost all of these units had to be sent to Hungary. The forces ready to oppose the presumed Russian main attack - the bridgeheads across the VISTULA at BARANOV and MAGNUSZEN north of the Carpathians, the NAREW and East Prussian fronts - re-

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ceived nothing. This illustrates the position of the Operations Staff, OKW, in regard to the problems of total warfare.

In order to achieve greater strength, I again suggested to HITLER the withdrawal of our troops from Kurland, Jugoslavia, and under certain circumstances from Italy. During Nov and Dec some divs were withdrawn from Kurland. I could not induce HITLER to permit the withdrawal of all our troops from that area, however, because he believed that more Russian troops could be pinned down there than anywhere else. From northern Italy several more divs were sent to the western front.

On the night of 1-2 Jan, 1945, the reinforced army of Gen BALCK started its campaign to relieve BUDAPEST. After preliminary successes the attack bogged down. I left for Hungary to study the situation personally, and, following that, I visited the Hq of Army Group A, in CRACOW. Returning with fresh impressions, I reported in detail to HITLER on 9 Jan. I pointed out the vastness and force of the pending Russian offensive and our alarming weakness in the face of such power - our shortage of local reserves, and the utter lack of operational reserves. Weighing the failure of the ARDENNES offensive and the limited possibilities of the VOSGES offensive, I concluded that it was imperative to go over to the defensive there and to send the Army and Air Corps units thus released to the eastern front. This suggestion was rejected because HITLER wanted to retain the initiative in the west. At the request of Gen HARPE, CG of Army Group A, I asked for permission to withdraw our troops from the bulge protruding between the two Russian bridgeheads across the VISTULA in order to avoid encirclement.

HARPE was a particularly brave, staunch, and conscientious general of armored troops. This suggestion, like that of Gen REINHARDT (CG of Army Group Center, in East Prussia) to retire from the NAREW to a shorter defense line on the East Prussian border in order to form new reserves, resulted in a growing distrust of army commanders which later led to the retirement of these two generals.

b. BEGINNING OF THE RUSSIAN OFFENSIVE

The great Russian offensive started on 12 Jan 1945, shortly after my return to Hq. Due to very heavy concentrations of arty, armor, and aircraft, the Russians were able to effect breakthroughs in every sector. Along the entire length of the 1200 km front we only had reserves of 12 armored and motorized divs. These were only able to contain the drive temporarily. In Army Group A's sector our troops were quickly surrounded and had to abandon most of their equipment before they were able to escape. On 13 Jan the attack on WARSAW was begun with a two-pronged encircling movement. On 14 Jan the offensive started on the NAREW and East Prussian fronts.

On 12 Jan I again wired to HITLER requesting the transfer of strong mobile units from the west and a general withdrawal from Kurland in order to throw all available forces against the offensive. I received permission to use four divs from Kurland and two from MEMEL, but from the west I received nothing. There remained in Kurland 16 inf divs and two pz divs, and it would require weeks before the six divs made available to me could be utilized effectively. When HITLER returned to BERLIN on 16 Jan, I spent the morning lecturing on the gravity of the situation.

c. DISMISSAL OF COMMANDERS

As a result of these developments Gen HARPE was relieved of his command and replaced by Gen SCHOERNER from Kurland, who was in turn replaced by Gen VON VIETINGHOFF.

WARSAW fell on 16 Jan. It was manned too weakly, some of the troops intended for its defense not having arrived at the time of the attack. Furthermore there was some misunderstanding on the part of my staff, caused by the retreat of units fighting outside of WARSAW, and the garrison retreated without a fight. That same night HITLER ordered the

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arrest of Col VON BONIN, Chief of the Operations Section, and two other General Staff Officers. My request that I be charged with the responsibility instead of my subordinates was rejected. I do not know what became of Col VON BONIN, a very able Staff Officer. The other two officers, both of them completely innocent, were released after a few weeks, but relieved of their duties and sent to the front as regimental commanders. One of them fell on the first day at the front, and the other was missing. I believe Col VON BONIN was sent to DACHAU before the encirclement of BERLIN, but since then there has been no trace of him. I was thus deprived of a trusted and well-trained man in the midst of a critical situation. For a time the Operations Section was brought to a standstill, and the officers of the General Staff, who were already in a serious mood, were visibly depressed. I tried in vain to sway HITLER from his unjust and inhumane course.

HITLER wanted to strike at the General Staff and to prevent general staff officers from passing on to their superiors their pessimistic outlook concerning the situation. They should merely pass along orders, never assert their own opinions. HITLER felt that he alone had the right to hold opinions upon which decisions would be based. He was convinced that he alone possessed clear perceptions concerning all fields of human activity, and accordingly he condemned generals, general staff officers, diplomats, officials, and, towards the end, even Party and SS officials as armchair strategists, weaklings, and finally as criminals and traitors.

d. FAILURE OF COUNTER-ATTACK IN THE NORTH

The Russian offensive continued to roll. On 20 Jan it reached the area south of THORN, pushed almost unopposed through the Wartheland on both sides of POSEN, and finally reached the ODER between FRANKFURT and KUESTRIN. In East Prussia, West Prussia, and Pomerania, Army Group Center was able to make a stand, and in Silesia the southern half of Army Group A held fast. Thus the flanks of the Russian spearheads were, for the time being, left open. This situation offerred limited possibilities of success for a counter-attack, a prerequisite for which was the proper handling of reserves. Owing to bad railway communications units from the west arrived too late and only in small forces. Furthermore, HITLER insisted on committing SS Gen DIETRICH's Sixth Pz Army, with its four pz divs, in Hungary, where it was to defend the oil fields and recapture the DANUBE Line on both sides of BUDAPEST. A newly arrived div from Italy was also committed in Hungary.

Ten divs, consisting of units from France, newly formed units, and forces just arrived from Kurland, were to strike south against the Russian flank from the Arnewalde area of Pomerania. The command was given to SS Gen STEINER, CG of the newly fromed Eleventh Army, and it was placed under HIMMLER's supervision. Both staffs were incapable of coping with the situation. This appointment of incompetent SS men was a direct result of HITLER's distrust of the General Staff.

The sooner the counter-attack could be launched, the fewer Russian reserves could be committed, and the greater were the possibilities of success. Rarely has the element of time been such a decisive factor in an attack. HIMMLER failed to appreciate this and insisted upon a planned assembly before the attack. HITLER took his part. After hours of heated discussions, I was finally able to advance the date of the attack to 15 Feb, and was permitted to send my assistant, Gen WENCK, to HIMMLER's staff as Chief of the Operations Section. Unfortunately Gen WENCK was severely injured in an accident one day after the start of the offensive. From that moment onward leadership was lacking and the attack bogged down.

The Russians, with reserves brought from East and West Prussia, drove past SCHNEIDEMUEHL and DEUTSCH KRONE to KOLBERG, and past BROMBERG to DANZIG, after occupying West Prussia east of the VISTULA up to the fortresses of GRAUDENZ and MARIENBURG. HIMMLER voluntarily retired from

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THORN, KULM, and SCHNEIDEMUEHL, while POSEN continued to hold out bravely for a few more weeks.

e. EAST PRUSSIA AND WEST PRUSSIA

During this time the course of the battle in East Prussia continued to be unfavorable to us. The Fourth Army withdrew from the well-fortified positions around LOETZEN without giving battle, in order to keep its left flank unexposed. In the face of the Russian pressure, it was also impossible to hold the positions around HEILSBERG. Because of these withdrawals the CG of the Fourth Army, Gen HOSZBACH, once HITLER's adjutant, was held on suspicion of being a member of the SEYDLITZ movement. Together with Gen REINHARDT, CG of the Army Group, he was transferred to the Commanders Reserve. Gen WEISS then became CG of the Army Group.

The forces in East Prussia were pushed together into the fortress of KOENIGSBERG and the area around HEILIGENBEIL on the FRISESCHE HAFF, while the Second Army units in West Prussia were crowded into the area around DANZIG and GOTENHAFEN. It was vitally important to rush reinforcements to these areas in order to hold these strategic Baltic ports. The only possible reserves were in Kurland. The ODER front also required immediate reinforcements in order to cope with pending Russian attacks there. In view of this situation I felt compelled to suggest again the withdrawal from Kurland, and for this purpose I asked for special assistance from Admiral DOENITZ. As usual the suggestion caused heated discussions. I explained that I knew of no other source of reinforcements, and I pointed out that Germany itself was at stake. Despite support from DOENITZ, the proposal was again rejected.

f. SILESIA

In the meantime the Russians had succeeded in establishing a bridgehead across the ODER and capturing Upper Silesia, with the towns of OPPELN, BRIEG, and STEINAU. In Lower Silesia they penetrated to the Lusatian NEISSE and captured LAUBAN, and in so doing they cut the last remaining rail line to Silesia. With the employment of hastily brought up tank units it was possible to ease the situation and to recapture LAUBAN.

g. PEACE FEELERS

Due to the damage done to the railways, preparations for the attack in Hungary were lagging, and the unfavorable results of operations in the east and in the west had created a desperate situation. It seemed necessary to me to end the war immediately, in order to give the poor, tormented people some chance of existence. Although aware of HITLER's thoughts on the subject, I explained the desperate situation at the front to Foreign Minister VON RIBBENTROP, begging him to take steps to bring about an armistice at least with the Western Powers. He coldly rejected my advice, emphasizing his loyalty to HITLER. Shortly thereafter, however, he made a vain attempt to deal with some personages in STOCKHOLM who were without sufficient influence. I then tried to win Admiral DOENITZ's support for ending the war, again without success. Finally, I got in touch with HIMMLER, who still maintained connections with foreign countries. I wanted him to act as mediator. On 20 Mar he stated that it was too early for such a step and that his unerring instincts made him feel that all would yet go well. It was unavoidable that HITLER should be informed of these dealings, and he issued a warning about commanders revealing the military situation to anyone.

h. FURTHER DEFEATS

On 7 Mar the SS pz divs launched our last attack by clearing the Russian bridgehead across the GRAN, north of the DANUBE. After regrouping the forces on the south bank of the DANUBE and completing all preparations, Army Group South, under the command of Gen WOEHLER, started

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its offensive in Hungary between Lake BALATON and Lake VELENCE. Our forces no longer had the strength to achieve any important breakthroughs. The enemy countered to our north, effecting a breakthrough and unbalancing the entire front line.

At the same time we lost our bridgehead at the mouth of the ODER east of STETTIN, as well as DANZIG and GOTENHAFEN in West Prussia, and the Fourth Army was annihilated at HEILIGENBEIL. Because we could no longer establish a well organized defense, owing to the lack of am and gasoline, all these battles resulted in very great casualties. The supply of large, encircled army units could only be partially satisfied by the inadequate shipping facilities in the Baltic. The Russians succeeded in surrounding KUESTRIN, and despite the heroic fighting of the troops there all attempts to relieve the town were frustrated. On the ODER front the enemy intentions became more and more obvious.

i. RETIREMENT OF GEN GUDERIAN

In the meantime Gen RAUSS had replaced SS Gen STEINER as commander in STETTIN. Gen RAUSS was soon retired himself, and without reason. HIMMLER gave up his command of Army Group WEICHSEL, and was replaced by the excellent Gen HEINRICI.

On 28 Mar, at a conference, HITLER reproached Gen BUSSE, CG of the Ninth Army, for the defeats around KUESTRIN. My efforts to justify the Army was the last straw, and I was sent away on sick leave. I departed without taking my leave.

j. CONCLUSION

After my departure the High Command of the Army and the General Staff were divided and practically dissolved. Gens HEINRICI, WEISS, and WOEHLER were discharged. Orders, unheard of in German military history, were given for the formation of a military court. No matter how inhuman the brutality, it could not eradicate the results of the frivolous politics and amateurish war leadership of a megalomaniac. It is not surprising that under the chain of continuous defeats the morale of the soldiers suffered, and their confidence in their leadership was shattered.

Of all the people around HITLER, the only one who ever dared to tell him the blunt truth was Minister SPEER. He did all he could to stop the senseless destruction of traffic facilities and industrial installations. To the best of my knowledge, SPEER was the first person to tell HITLER plainly that the war was lost and must be stopped. About the other people who surrounded HITLER it is now useless to say more. Some were without influence, and some encouraged him in his craze.

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26 July 1945

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9 July 1945

SEVENTH ARMY INTERROGATION CENTER
APO 758

HAUSSER'S PERSONAL EXPERIENCES

Final Interrogation Report

SOURCE:

HAUSSER, Paul, OBSTGRUF (Col Gen of WAFFEN SS) (Of Report Ref No SAIC/17, 24 May 45). Source is a firm believer in HITLER's theories, and attempted to justify most of the FUEHRER's deeds, but he talked freely on military matters. Formerly a Prussian general in the Army, source stressed the fact that he was primarily a military leader and not a politician.

Note: The material published below is substantially a translation of a statement prepared by source.

FOREIGN MILITARY STUDIES
HISTORICAL DIVISION
HEADQUARTERS, EUROPEAN COMMAND
APO 757
RETURN TO:
682.619-2

Rating: C-2 Date of Information: See Text Interrogator: RJ

I
TANKS ON THE EASTERN FRONT

1. INITIAL ENGAGEMENTS

In 1943 the pz div consisted of one pz regt of two bns, each having both PzKw III and IV. Later two divs received an additional Tiger tank co. Each bn had three or four cos of either PzKw III or IV. Each regt had a total of about 100 tanks, including command tanks.

a. KHARKOV

The KHARKOV sector is the first in which my tanks were committed. This commitment was a success, although certain "childhood ailments" had to be overcome, particularly in technical matters. Even though it was a mild winter, the weather limited the use of tanks. The largest number usually committed by the armd regt was only one bn.

b. DONETS RIVER

During the Jul 43 attacks along the DONETZ River from BELGOROD north toward OREL, tanks were committed in the entire corps area, but only in several spearheads. The total number of tanks involved was about 300. This attack aided by tanks was successful against strong Russian opposition, even after Russian reserves had been deployed.

From 5 Jul to mid Jul 43 heavy tank battles took place almost daily. The penetration of the two deeply organized enemy positions proceeded exactly according to plan, down to the last detail. Only behind the positions did we become involved in severe battles with operative reserves in difficult terrain. These tank battles did not have operative results, since our Ninth Army, attacking north of the large arc around OREL, was unable to advance at the same speed.

c. MIUS River

The High Command and part of the divs were pulled out and committed further south at the MIUS River. Corps objective there, was to destroy a large Russian bridgehead. The terrain was unfavorable, and the attack could only be made along clearly defined ridge lines, which were heavily mined and covered by AT wpns. Every attack along a ridge soon came under flanking fire from the ridges parallel. We overcame these obstacles only by using infantry covered by tanks. The bridgehead was taken on the third day, after one of the pz divs was able to switch the main effort to the right wing, where the enemy weakened. Supporting data re my own losses

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and enemy tanks knocked out is not available to me. However, one div reported at the end of Aug 43, when it was no longer under my command, that it had destroyed 1000 enemy tanks since it was first committed in 1943.

2. MAINTENANCE PROBLEMS

The number of combat-ready tanks is a deciding factor in any extended operation. This depends on maintenance services; good work in the field and in the rear must be demanded. Long trips to place of commitment caused temporary losses. It is wise to leave a certain number of tanks behind as a reserve.

To be successful in a weeks-long operation, a pz div must always have 30-40% of its tanks ready for use. I doubt whether more than 40% has ever been attained.

3. THE MOTORIZED SS INF DIV

At the beginning of the war the mtz SS inf div consisted of three inf regts (three bns each), one motorcycle inf bn, and a recn bn, with additional units (TD, engr, arty, sig). This division was strong in inf, but was too cumbersome. It needed two approach routes to bring all units into action in one day. Its march length was 250 km.

The awkwardness of this organization led to reduction of the third regt to a light regt for security missions; and finally the inf of the div was reduced to two regts and a recn bn. In combat strength, the div was still stronger by two bns than the reguler army Pz div.

During 1943, one bn of the div was motorized with armd personnel carriers to be prepared to be prepared for immediate combat with tanks. They conducted operations mostly from their vehicles. It was intended to motorize one bn in each regt. This would have made it possible to combine each tank bn with one mtz Pz Gren bn.

II

INVASION : BATTLE FOR COTENTIN PENINSULA

1. SITUATION

Three weeks after the beginning of the invasion, in the latter part of Jun 44, I assumed command of the Seventh Army after the death of Col Gen DOLLMANN. The front line ran from vic CAUMONT (right flank) north of ST LO - southwest of CARENTAN - north of LA HAYE DU PUITS - to the coast.

The divs of the Army, including the 17 SS PG Div, had been weakened seriously in previous battles. The 2 SS Pz Div arrived piecemeal from Southern France. The good 3 Prcht Div fought on the right flank. Operational reserves were non-existent. The greater part of the pz divs were fighting in the CAEN area. Further reserves were available only from the Fifteenth Army, on the right, where the actual large scale attack had been expected.

Field Marshal ROMMEL commanded the Army Group. Commander in Chief West was Field Marshal von RUNDSTEDT, who a few days later was relieved by Field Marshal von KLUGE. Von KLUGE assumed command of Army Group after ROMMEL's automobile accident.

Brittany, the Channel Islands, and the sector to the LOIRE were under the Seventh Army. Brittany was stripped of all dispensable troops in favor of the COTENTIN front. Only fortress garrisons and weak security detachments were left. Request for the 2 Prcht Div (Gen RAKE) as operational reserve in the AVRANCHES sector was not approved by Army Group. Neither was the weakening of the Channel Islands garrisons approved. The Army CP was in LE MANS.

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9 July 1945

2. THE DEFENSE PLAN

In evaluating the situation after assuming command, I requested the creation of reserves by withdrawal of pz divs. This necessitated shortening the front lines, a tactical retreat, and withdrawal out of range of the enemy fleet.

This plan was not approved. Absolute holding of the present positions was demanded. This led to complications, especially on the western flank, which protruded. Even though mobile operations in Normandy were impossible in view of the limitations of the area and our numerically limited forces, this procedure was nevertheless stupid. It resulted in heavy losses, especially due to the Allied air superiority. Forces for strengthening rear positions were not available.

3. THE TERRAIN

The terrain was difficult for both attacking and defending forces. Observation was poor. Walls and hedges surrounding the fields and pastures interfered with the mobility and mass employment of tanks. Engagements took place mainly on roads, where artillery and machine guns--our principal defensive weapons-- could be used only under certain conditions. The mortar was best suited for the terrain. Tanks could be committed only in armd task forces, or individually with attached infantry. Close rangeAT weapons were quickly used up, and additional supply failed.

4. THE BATTLES

a. CAEN

Initially the main effort in the fighting was in the CAEN sector. The US Army attacked us only after they had mopped up the northern part of COTENTIN Peninsula. First pressure was on our protruding western flank. The wooded heights in that area were scenes of heavy fighting. The attacks extended to the middle of the Army, along the TAUTE River. This resulted in a "retreat according to plan" toward the "water line", PERIERS-LESSAY. One pz div was brought up as reinforcement, because an extension of the attack toward the east, in the direction of ST LO, was expected.

Arrival of reserves from the Fifteenth Army was disrupted because of the planned destruction of all bridges across the SEINE except in the PARIS area. Reserves always arrived late and disorganized. Plans for their commitment were never realized on time.

The expected attack on ST LO was heavy. The town was captured, completely destroyed.

b. AVRANCHES

At AVRANCHES the US forces launched a large-scale attack, with a very heavy preparation on the main combat area by artillery and air force (carpet bombing). Their attack struck one pz div and one prcht div. Behind them was a weak reserve, only one reinforced inf regt. Despite this, the MLR was in our hands again by night.

The next day carpet bombing was renewed, this time on our MLR. Apparently the most advanced US units had been pulled back. Our positions were badly battered, and the US forces broke through. Penetrating to the west via VILLEBAUDON, this breakthrough cut off and surrounded the the western part of my army. I ordered an additional pz div brought up. Parts of it arrived on time; so, using the 2 SS Pz Div as assault block, I ordered the surrounded units to fight their way out southeast toward the coast.

This order was not approved by Army Group, which now feared a breakthrough farther west. The final US breakthrough could not be prevented much longer, and I felt it was more important to preserve the forces of the Seventh Army for future deployment.

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The surrounded units succeeded in breaking out, but with loss of materiel, and it was inadequate to prevent the armored breakthrough at AVRANCHES during the following days. The road was now clear for the US forces in the flank of the German Western Army, and into Brittany. The fighting of the ST MALO garrison could no longer change the situation. The pressure of the British around CAEN at the same time increased.

c. COUNTER OFFENSIVE

The Commander-in-Chief decided to create a mobile reserve behind the left wing of the Army. From this apparently originated the High Command plan to drive toward AVRANCHES with one pz corps in order to break the rear communications of the US forces. Three pz divs were assembled in the area northwest of MORTAIN for this push south of the SEE sector.

This operation could be successful only if it were executed quickly, without regard to the strong threats on our flanks. But this could not be done. The Allied air forces stopped troop movements completely during the daytime, and limited them severely at night. The delay and the continuing US air operations led to failure of this plan.

The High Command ordered another thrust under the command of Lt Gen (GEN D PZ TR) EBERBACH, with an additional div for reinforcement. However, these units were already weakened in materiel and personnel. Despite pressure from higher headquarters, this operation could not be carried out, because the US forces, with their left wing over DOMFORT, had already pushed far into the flank of the Army.

Then, with the Americans in the south, and the British in the north, the Seventh Army and Armored Force EBERBACH were encircled in the FALAISE-ARGENTAN sector. At that time Field Marshal MODEL took over command, replacing von KLUGE. He ordered a withdrawal behind the DIVES sector. But at the same time, part of the II SS Pz Corps, which up to now had been able to prevent complete closure of the encirclement was withdrawn. After the closure of the enemy front even in the east, the C in C had only one choice: to order all surrounded units to fight their way out to the east.

This plan succeeded, but cost us much in staff, materiel, and personnel. I am unable to furnish details, since I was wounded during the second night of our break-out.

5. EFFECT OF US AIR FORCES

I must say more about the Allied Air Forces. The continuous employment of chains and flights of fighter-bombers prevented traffic of even individual passenger cars on main roads. The keeping of time schedules was impossible.

The supply (mainly of ammunition and gasoline) by railroad and motor transport was stopped almost entirely by destruction of bridges and attacks on trains and supply columns. Trains could move only at night. During daytime they had to be camouflaged and dispersed. The lack of gasoline was most serious.

Our own air force was more or less unavailable for combat or reconnaissance work.

III
FEBRUARY-MARCH 1945, ARMY GROUP "G"

1. SITUATION

After my release from the hospital, at the end of Jan, I received command of Army Group OBERRHEIN, which after a few days was merged with Army Group G under the latter name. It comprised the First Army, with its right boundary on the MOSELLE, southwest of TRIER; the Nineteenth Army, in the COLMAR bridgehead; and the security forces along the RHINE from STRASBOURG to the Swiss border.

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The front line extended from the MOSELLE along a partially prepared defensive line to the SAAR northwest of MERZIG, then along the front of the WESTWALL, through the VOSGES mountains north of HAGENAU to the RHINE.

The First Army, which had withdrawn from Southern France into this area, was strong. It comprised one pz.. div, one Pz Gren Div, and one new mt div (6 SS Mt Div). The Nineteenth Army also was at full battle strength. It had enlarged its bridgehead in the RHINE valley by attacks toward the north. The security troops behind the RHINE consisted of custom official units militarily organized, Volkssturm and several repl bns. Large installations of the Westwall were occupied by fortress troops. There was considerable fortress artillery and AT guns, but they were immobile. The Westwall in the First Army sector was occupied similarly.

2. THE BATTLES

a. COLMAR

The most serious threat began with the attack by the Americans and French against the bridgehead at COLMAR. It developed into several bitter battles which lasted some time. Our objective was to prevent an early breakthrough of the Americans toward BREISACH. With the forces available, the bridgehead could not be held long. The 2 Mt Div arrived piecemeal, and had to be committed as it arrived. Withdrawal took place by sectors, and we reached the east bank of the RHINE without having lost a decisive battle. The crossing on two bridges and on ferries was very successful. Behind the RHINE two divs were shifted to the First Army, and the remnants of three others were pulled back for reorganization.

b. THE WESTWALL CRACKS

The First Army had orders to hold its positions. The strong point of the defense line was in the SAARBRUECKEN bridgehead, in the area of the lower BLIES, west of the VOSGES Mts; and in the plains of the RHINE valley vic HAGENAU. An enemy penetration in this sector would be of grave tactical significance -- regardless of the Siegfried Line which lay behind-- since it would imperil the defense of the SAARPFALZ. This explains the building of strongpoints, road blocks and mine fields (HAGENAU woods).

The advanced positions on the right flank, which reached the MOSELLE and were connected with the SAAR, were dangerous. The first American attacks in this sector were beaten back, since sufficient forces were on hand (11 Pz Div). A request to withdraw from this area after the 11 Pz Div had been pulled out was not granted. Later attacks met less opposition, from units which unfortunately could not withdraw, but had to defend their positions to the last. The forces that did get back, united with weak Volkssturm units on the SAAR, were not sufficient to hold the new positions. This was the ultimate reason for the capture of TRIER, and the cracking of the Westwall, which was very strong at that point. Strong American units forced a crossing of the SAAR, pushed to the north, crossed the MOSELLE at TRIER, and thereby penetrated into the left flank of the adjacent army on our right. This army (the Seventh-- not part of Army Group) was subjected at the same time to strong frontal assaults.

c. MOSELLE

The battles of the MOSELLE took place on the boundary between Army Group G and Army Group B (MODEL). This was disadvantageous. It made it necessary for the High Command to attach the Seventh Army to Army Group G and the Nineteenth Army to Command West. Army Group G was then responsible for the entire area from the SCHNEE-EIFEL to the RHINE.

The Seventh Army had been on line since the invasion. It had suffered severely. Because it was not in the strong point of Army Group MODEL it drew very few replacements; it controlled only the remnants of

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one pz div. Therefore it was unable to hold its positions of the KYLL river and further east. The army line cracked, the northern parts were split, the main parts were pushed toward the MOSELLE, and some units were forced toward the RHINE.

d. DEFENSE HOPES VANISH

The situation at our own Army Group gave us reason to worry: a crossing of the lower MOSELLE was threatening, and the MOSELLE, with its many bends, is poorly adapted to defense. A thrust via BAD KREUZNACH into the southern RHINE plain south of MAINZ appeared possible since no rear defenses existed in the HUNSRUECK sector. Such a thrust would make the defense of the SAAR PALATINATE and of the Westwall impossible, and would lead to encirclement of strong elements of Army Group. It would thus be an error to try to hold the SAAR PALATINATE. It appeared more important to withdraw Army Group in time so it could take over the defense of the RHINE in full combat strength.

On the other hand, economic considerations, such as the coal deposits near SAARBRUECKEN and the oil wells near PECHELBRONN, demanded that this area be held as long as possible. Yet, even these considerations had to be pushed aside. After beginning of large scale attacks at the MOSELLE and SAAR and on both sides of the VOSGES, the situation was reported to higher hq; the battle strength of the Army Group was decreasing, partly because of supply problems. But higher hq did not agree. They ordered that the sector be held, but with the reservation that encirclement of any large groups was to be prevented.

That was a difficult task. The battles proceeded according to expectation. In the west our positions had to be withdrawn from the Westwall, one by one. The southern front held more or less together, but the breakthrough from the MOSELLE across the NAHE River to the southeast could only be retarded--not prevented. Tank breakthroughs from the north caused great loss of personnel and materiel. Hopes of leading the armies across the RHINE for defense in full strength finally vanished.

e. CROSSING THE RHINE

While some units continued to fight on the west bank of the RHINE vic SPEYER, American troops forced the crossing of the RHINE against weak security vic OPPENHEIM, where the terrain particularly favored crossing in a west-east direction. Local reserves tried to prevent an extension of the bridgehead via GROSS GERAU toward FRANKFURT and via DARMSTADT toward ASCHAFFENBURG; but they succeeded only for a short time. Besides this spearhead in the northeast, other US forces thrust southeast into the ODENWALD, established another bridgehead near GERMERSHEIM and advanced toward HEILBRONN-PFORZHEIM.

Early in April, Army Group was distributed with single units at EISENACH, MEININGEN, in the HOHEN RHOEN, at the MAIN River near GEMUENDEN and WUERZBURG, near BAD MERGENTHEIM near HEILBRONN, south of BRETTEN, near RASTATT, and from there on along to the RHINE.

The battles in these days had a new character. The service commands sent up reinforcements of all sorts: reserve officer trainees, NCO students, only partially equipped and armed, and almost always without communications equipment. Together with the remnants of the divs, they assumed frontal positions and tried to stop the US armd spearheads by flank attacks. The enemy spearheads had numerous tank destroyer units. Our defense was strongest in the WUERZBURG and PFORZHEIM sectors.

On 4 Apr 45 I relinquished my command of Army Group G to GEN D INF SCHULZ. My release was caused most likely by differences of opinion concerning the conduct of the defense.

9 July 1945

SEVENTH ARMY INTERROGATION CENTER

PAUL KUBALA
Major, MI
Commanding

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2789 XIX Corps - & 7th Army Document Center Inventory Reports 1-46

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cont'd
Tng Station for Each engrs of German AF, BAD BLANKENBURG, Thur.

No. (of files books, doc's, etc)	Subject & Author or Originator	Periods Covered
2 Manuals	Articles of War	
1 "	List of Forms and Printed Matters	
1 Roll	Training Charts and Records	
1 Manual	Counter Intelligence	1941-42
1 "	Procurement Forms	
2 "	QM Procurement Regulations for the CAF	1938-39
1 "	Handling of Radar Apparatus FUSE 62	1941
1 "	PAIDH - Three Rudder Flying	June 1941

George F. Grayfield
GEORGE F. GRAYFILL
Major, GSC
Asst. G-2

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

LIBRARY AD/I

1 June 1945

INVENTORY REPORT

LOT: OKL (Air Force High Command) Archives and files from RLM (Air Ministry. Source: Miendorf/Harz, Castle Falkenstein. Present Location: Library, XIX Corps Documents Center.

CLASSIFICATION: Military

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: USTAAF, USSBS, G-2, WD

DETAILED LIST

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods covered
48 files	GAF Casualty Lists, personnel and equipment	1940 - Dec 43
1 file	Detailed summary, GAF casualties	Beginning of War - 42.
7 files	GAF - plane accounts	1942-44
300 bundles (approx)	GAF - personnel casualty lists by name	1939-44
19 bundles	GAF - personnel and equipment accounts	1940-41
15 files	GAF - Equipment, personnel & plane losses of units other than field units (AAA, GAF Schools)	1940-44
1 file	Graphical drawings, depicting commitment readiness of GAF units	1939
2 folders	GAF - personnel casualties incurred during Stalingrad campaign	1940
1 folder	GAF - homefront casualties (accidents)	1940
2 folders	GAF - graphical drawings, illustrating commitment readiness of AAA	1939
19 files	GAF - losses (flying & ground personnel and equipment) incurred during Tunis campaign	1943
11 files	GAF - flak (AAA) reports.	1939-44
3 files	Statistics and various GAF reports	1942-44
300 folders	GAF - "Flak ready-for-commitment" reports	as of 30 Oct 44
7 folders	- do -	1939-43
19 folders	Detailed summary of plane losses	1943-44
1 folder	GAF - ammo statistics	1943-44
1 folder	GAF - equipment statistics	1942-44
1 folder	GAF - vehicle reports	1943-44
2 folders	GAF - consolidated loss reports - by units	1943-45
2 folders	GAF - records showing how commitment readiness of flying units was exploited	Aug 43 Nov 44

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LOT: OKL Archives (cont'd)

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods covered
2 folders	GAF - personnel casualties-ground troops	Sep-Dec 43
2 folders	10 day and monthly reports (OKW), concerning GAF personnel & materiel losses	Oct 42 - Mar 44
1 folder	GAF - statistical exploitation: losses by units	1943-44
1 folder	GAF - reports on deliveries to Rumania (with illustrations, i.e., charts, drawings, etc.)	As of Fall, 1943
16 files	GAF - casualty breakdowns	1944
1 file	GAF - reports showing commitment readiness of "air-torpedo arm"	Jul 42 Apr 43
1 folder	GAF - administrative records	1940-43
2 folders	GAF - losses (general)	1942-44
1 folder	GAF - reports on status of planes, AAA and Fuel	1942-44
1 bundle	GAF - reports on commitment readiness of paratroops	As of 8 Nov 44
1 file	GAF - graphical drawings pertaining to Air Signal Corps	1938
15 bundles, 4 files	GAF - records showing Air Sig Corps commitment readiness	1939-44
36 files	GAF - daily casualty reports by units	1940-44
36 files	GAF - records showing commitment readiness of flying units	1938-44
4 folders	Plane Losses - GAF (classified)	1943-44
2 folders	GAF - records showing commitment readiness of AA	1944
1 folder	GAF - casualty reports by units	1941
1 folder	GAF - general statistics	1941-44

REMARKS: On casualty lists, where casualties are listed by name, cause and circumstances of death are indicated. On other casualty and loss lists (personnel, plane, equipment, etc), which are broken down by units, components, campaigns, etc, there are various descriptions of how such losses occurred, i.e., through enemy action (bombing, strafing, etc), or through accident.

The "ready-for-commitment" files contain information as to how many men, planes, guns, etc, of the various branches of the Luftwaffe were available and ready for commitment at certain times.

As indicated above, the Germans kept a large number of different statistics on their losses and casualties, and it is thought that these statistics offer to interested agencies a good insight into manpower and material strength and losses of the Luftwaffe, from beginning of the war to at least the end of 1944.

George F Graybill
GEORGE F GRAYBILL
Major, GSC, Asst. G-2

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

LOC: Files of SS Sturm 1/57, Thuringia. Present Location: CI Library, XIX Corps Documents Center.

CLASSIFICATION: Counterintelligence.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: CI, MG.

DETAILED LIST

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
9 folders	SS Sturm 1/57; 201 files of SS men (pre-war and Ruffen SS), who became casualties during the War.	1934-44
1 folder	SS Sturm 1/57; SS membership dues receipts.	1934-39
1 list	Members of SS Sturm 1/57 who were used for police duty or inducted in the Army.	Not indicated.
1 folder	SS Sturm 1/57; orders and training schedules.	1934-36
1 folder	SS Sturm 1/57; correspondence from and to members.	1939-44
1 file	Central membership file of SS Sturm 1/57	- - -

GEORGE F. CAMPBELL
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INVENTORY REPORT

LOT: SIEMENS ARCHIVES, Berlin. - Business and Family Records.
At Present: Bldg No. 2, XIX Corps Document Center.

CLASSIFICATION: Research - Historical - Business and Economic

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

No. (of files, books, docs, etc.).	Subject and Author or Originator	Periods Covered.
C A S E NO. 6		
File No.		
Z 3933 - 1 file	Affidavits	1851-95
Z 439 - 1 file	Inventories	1896-97
Z 441 - 1 file	Inventories	1898-99
Z ? - 1 file	Inventories	1899-1900
Z 391 - 1 file	Correspondence, Werner Siemens	1848-74
Z 390 - 1 file	Correspondence Halske	1848-50
Z 389 - 1 file	Business Documents	1846
Z 392 - 1 file	Correspondence, Werner Siemens with S & H, Berlin	1854-63
Z 394 - 1 file	Documents, Siemens & Co	1850-84
Z 126 - 1 file	Correspondence, S & H, St. Petersburg, to S & H, Berlin	1857
Z 370 - 1 file	Physico-Technical Laboratory	1873-84
Z 371 (1&2) 2 files	- do -	1881-1933
Z 369 - 1 file	Patent requests	1877
Z 368 - 1 file	Patents	1877-83
Z 352 - 1 file	Correspondence, Prof Henley	1866-85
Z 388 - 1 file	Documents concerning English Electric Light bill	1882
Z 341 - 1 file	Letters of Karl Mueller, former employee	1866
Z 339 - 1 file	Correspondence, Joshua Bailey	1982-87
Z 386 - 1 file	Caloric Steam Engine, Correspondence, Werner Siemens	1857-59
Z 385 - 1 file	Documents, Re: Patents	1881-85
Z 336 - 1 file	Correspondence, Brenan & Co,	1877-85
Z 387 - 1 file	C. W. Siemens	1879-80
Z 480-3 Z 432-50 - 12 files	Business & Financial Records	1850-98
Z 75 - 1 file	Business Documents & Records	1856-90
Z 75A - 1 file	Documents, Re: Family	1847-1940
Z 75B - 2 files	Documents, Werner Siemens & Family	---
Z 75E - 1 file	Private Diplomas, Sir William Siemens	1841-93
Z 75F - 1 file	Awards & Citations, Carl Siemens	1850-96

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No. (of files, books, docts, etc.)	Subject and Author or Originator	Periods Covered
B A S E NO 6 - cont'd		
Z 88A - 1 file	Letters, Friedrich to William Siemens	1860
Z 202A - 1 file	Letters from Werner to William and Carl	1856
Z 345 - 1 file	Correspondence regarding proposed Atlantic Cable	1870-92
Z 344 - 1 file	- do -	1877-1918
Z 347 - 1 file	Correspondence with Ministry of Navy	1872-74
Z 335 - 1 file	Correspondence with Dr. Fellinger, Vienna	1883-88
Z 180 - 1 file	Business & Private Correspondence of Arnold & Wilhelm S.	1879-94
- --- 1 file	Register of Companies & Powers of Attorney	1862-96
55 - 1 file	Annual Reports	1925-33
Z 329 - 1 file	Fiscal Reports	1847-50
54 - 1 file	IRB Paying Reports (marked confidential)	1941-42
B A S E NO 5		
- --- 3 files	Electro-Chemical Research Reports	1935-41
53 - 1 file	Report of Business Development	1 Oct 26 to 30 Sep 27
- --- 39 files	Reports of Industrial Section	1905-43
61 - 1 file	Annual Report of Central Agency for Telephone Sub-Installations	1938-39
- --- 3 files	Annual Reports S&H/SSW	1930-37
- --- 1 file	Incomplete Business Reports, Siemens & Co (marked confidential)	1901-28
50 - 1 file	Annual Reports of Central Laboratories	1920-40
- --- 3 files	Personnel Statistics	1912-14
64 - 1 file	Reports of Scientific & Technical Experiments	1922-40
56 1 folder	Annual Reports of Scientific Department	1924-40
20 4 vols.	Yearly Statistics Comp. General d'Electricité de Creil	1911-14
- --- - 14 files	Annual Reports of S&H Plant in Vienna	1893-1915
- --- - 1 file	Records of Building Materials for S & H Electric Rt Dept	--
- --- - 3 files	Annual Reports of S & H Electric Rt Department	1907-12
- --- - 1 file	Development	1936-37
37 - 1 file	Annual Reports Central Foreign Trade Department	1908-17

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No. of files, books, boxes, etc.)	Subject and Author or Originator	Periods Covered
C.A.S.B. NO 5 cont'd		
-- -- - 4 files	Development Activity Reports	1933-36
-- -- - 15 files	Business Records, Small Parts Plant	1915-40
-- -- - 3 files	Annual Reports Gebr. Siemens & Co (incomplete)	1900-19
51 - 21 files	Continue Register, Political-Political Dept	1919-36
51 - 3 files	Annual Reports of Personnel Dept, SSW	1918-37
-- -- - 1 file	Reports of X-Laboratories	1932-33
52 - 1 file	Annual Reports of War Marine Technical Dept.	1905-10
52 - 1 file	Reports of Progress Made in Experimental Laboratories	1928-40
-- -- - 9 files	Annual Reports of S&H Branch Offices (incomplete)	1928-42
C.A.J. E.N.		
1 901-931 - 31 vols	Private Correspondence of Siemens Family - Letter Copies	1852-92
- 66 files	Original Letters	1842-92
1 (a)	S.A.G. Stockholders' Meetings	1857-1912
- 2 vols	Min & Minutes of Board of Directors' Meetings	1857-1912
- 6 vols	S&H Minutes of Board of Directors' Meetings	1903-22
- 18 vols	S&H and SSW Reports of Marriage Dept.	-

1 case containing several reels of war paper.

George F Bragdell
GEORGE F BRAGDELL
Major, CSC
Asst. Dir.

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1 June 1945

INVENTORY REPORT

LOT: Schaeffer & Budenberg, Magdeburg. (Plant making mostly airplane, submarine & torpedo parts.) Present Location: XIX Corps Doc Center, Bldg No 2.

CLASSIFICATION:

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: CIOS, G-2 SHAEF Economic Branch.

DETAILED LIST

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
Approximately 200 files and folders	Containing drawings, plans, orders, bills, administrative records in no apparent order or sequence.	
27 folders	Marked "F" - Records on stocks belonging to the Reich & stored with Schaeffer & Budenberg. Records on inventory, organisation, protection, use and accounting for such stocks.	1938-45
3 folders	Orders assigned by Schaeffer & Budenberg to affiliated companies.	1938-45
5 folders	Schaeffer & Budenberg correspondence with other industrial concerns; re: orders assigned to the latter.	1944
29 folders	(Marked 24-44) Parts & numbers indexes, general production control.	1942-44
2 files	Notes & messages on projects which Schaeffer & Budenberg planned to undertake.	1943-44
11 files	(Marked "SO" Secret) Correspondence from all of Schaeffer & Budenberg affiliated firms.	1943-44
7 files	Numbered blueprints (Schaeffer & Budenberg) 19 series.	1941-45
18 folders	Schaeffer & Budenberg shipping tickets, arranged by running numbers.	1943-45
5 folders	Schaeffer & Budenberg shipping tickets, arranged alphabetically by firms.	1944-45

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(LOT: Schaeffer & Budenberg, Magdeburg, cont'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
1 file	Correspondence of firms interested in project of HT 14. (Note: Master File identifies HT 14 as "Arbeit-sausschuss Torpedo" (low echelon agency of Speer Ministry for torpedos))	1944
1 file	List of subcontractors	1940-41
1 folder	Parts file of the TVA. (Note: Master file identifies TVA as "Torpedo Versuchs-Instalt", (Torpedo experimental Institute) Peenemuende.))	1940-43
1 folder	Records of committee meetings at Schaeffer & Budenberg.	1943
1 folder	Records on price control.	1944
1 folder	Correspondence between OKM and Schaeffer & Budenberg.	1938-45
6 folders	Purchase orders and cancellations.	1938-45
33 folders	Marked "HT 14". Schaeffer & Budenberg's dealings with "HT 14". (Note: Master file identifies HT 14 as "Arbeitsausschuss Torpedo" (low echelon agency of Speer Ministry for torpedos.))	1934-45
56 folders	Marked "TVA". Schaeffer & Budenberg dealings with "TVA". (Note: Master file identifies "TVA" as Torpedo Versuchs-Anstalt (Torpedo experimental institute) Peenemuende.))	1942-45
40 folders	Marked "VWT". (Note: Master file identifies VWT as "Verkaufs-Lehr-Technik" - Schaeffer & Budenberg department of sales to the Armed Forces.) Folders contain information on all activities of this dept.	1940-44
22 folders	Marked "Aussig". These folders contain all bookkeeping records of Schaeffer & Budenberg. This bookkeeping was done by an accounting firm called "Aussig".	1944-45
37 folders	Marked "VWTZ". (Note: Master file identifies VWTZ as Dept "Zubehoer" (Utensils & Accessories.)) Translation of duties of VWTZ as listed in Master file follows: "It is charged with the accomplishment of permanent deliveries of spare parts, armatures, measuring gauges, which were ordered by authorized firms under the mobilization plan. All these articles are for Wehrmacht use, especially for the Navy.	1938-45

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(Lot: Schaeffer & Budenberg, Magdeburg, cont'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
21 folders	Marked "VWTS". (Note: Master file identifies "VWTS" as dept "Werkstoff, Gusateile" (Castings). Translation of duties of "VWTS" as listed in Master file follows: It is responsible for the delivery of all types of castings to all three components of the Wehrmacht.	1942-45
11 folders	Marked "VWTG". (Note: Master file identifies "VWTG" as dept "Stolzenberg Getriebe" (Stolzenberg Engines.) Translation of duties of "VWTG" as listed in Master file follows: It is charged with the manufacture of "Stolzenberg" engines for airplanes.)	1942-45
166 folders	Marked "VWTA". (Note: Master file identifies "VWTA" as dept "Flugzeugarmaturen" (armatures for airplanes.) Translation of duties for "VWTA" as listed in Master file follows: It is charged with the production of airplane armatures, mainly for engines and boates..)	1938-45
97 folders	Marked "VWTM". (Note: Master file identifies "VWTM" as dept."Messgeraete" (Measuring & survey apparatus.) Translation of duties of "VWTM" as listed in Master file follows: it has to fill orders for survey & measuring apparatus, which is used by the Luftwaffe on the ground and in the air.)	1940-45
69 folders	Marked "VWTR". (Note: Master file identifies "VWTR" as dept "Reparaturen" (repairs). According to Master file this dept is charged with repair of all articles which were sold by Schaeffer & Budenberg, either to the Wehrmacht or to private industry.))	1940-45

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P/H - 7F9/6

XIX CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

LOT: Financial Records of the Regional Finance Office, Thuringia Germany. Present Location: XIX Corps Library, Documents Ctr.

CLASSIFICATION:

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

No. (of files, books, docts, etc)	Subject and Author or Originator	Periods Covered
556 Folders	a. Correspondence on Debts of individual Germans abroad	1934-44
	b. Financial Settlement of Jewish property	1934-44
	c. Payments to foreign Creditors & Heirs	1934-44
	d. Correspondence on Purchase of Gold	1934-44
	e. Requests & Permits for foreign currency (Devisen) for payment of debts & travel abroad	1934-44
	f. Investigation of violations concerning foreign currency transactions.	1934-44
	g. Fines for violations of laws regulating foreign currency.	1934-44
	h. Correspondence on transfer of foreign currency to Germany.	1934-44

REMARKS: In most cases, folders contain several of the above subjects.

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

NAME : NSDAP - Thuringia - KREISLEITUNG - Hildberghausen

CLASSIFICATION : _____

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST : _____

DETAILED LIST

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
1 box	files of Party members who held positions in Party	
1 "	Pictures of such persons	
	Financial Records	
2 folder(s)	Cash Receipts	1942-43
2 "	Paid Bills	1943-45
1 "	Telephone Bills	
2 "	Financial Reports & Relief accounts	
1 "	Mailis	

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

1 June 1945

INVENTORY REPORT

LOT: Military Geographic Institute Maps, studies and surveys. Source: Hildern, Schloss Natzungen. Present location: XIX Corps Library, Documents Center.

CLASSIFICATION: Military.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: Corps of Engineers, WD.

DETAILED LIST

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods Covered
1500 copies (approx)	Military-geographic description of SW France. Issued by German Army General Staff. Classified confidential.	Issued May 1944
600 copies (approx)	Army manuals on terrain and technical surveys of certain areas based on 1:100,000 maps. Classified confidential.	1933-37
250 copies (approx)	Military-geographic descriptions of Central European countries - Russia, Near and Middle Eastern Countries. Restricted.	Various, up to 1943
1 box	Maps of European countries - Scandinavia, Africa, Near East, and Balkans. Various scales.	1940-44
Approx 15 maps	City maps of major Russian cities.	1941
Approx 25	Blueprints, sketches, & descriptions of German bridges and roads.	1940
1 study	Study and photos of road nets of Spain for military use. (Incomplete)	1940
30-40 copies	"Heeres Verordnungsblatt", newspaper giving new German Army regulations.	1942-44
1 report	Report of Fall maneuvers, German Army	1932
1 booklet	Mil-economic study of Holland industries.	1944
1 index	Index of military maps of Holland.	1940, 1943
1 memorandum	Water supply system of Chemnitz	1937
2 books	Economic and military description of Leipzig and Dresden.	1937
1 folder	Water science & power dams in Germany (photos & clippings).	- - -
1 manual	Road and traffic net of S. Holland.	1940

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(LOT: Military Geographic Institute Maps - Hildberg, cont'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
1 manual	Fire direction data	1940
1 index	To military maps of Balkans	1940
1 study	Mil-geographic study of Netherlands.	- - -
5 envelopes	Aerial photos of Zeppelin, Malbach, & Dornier works.	- - -
1 study	Study of Elbe valley.	- - -
Various	Miscellaneous loose leaves, pamphlets, on military-geographical subjects.	- - -

RSH-RSE:

The Military-Geographic description of SE France was compiled by the Military Commandant in France, issued by the General Staff in May 1944. Each copy consists of a folder containing a book describing SE France, plus 10 maps (1:300,000). Subjects covered are breakdown of agriculture, geological characteristics, vegetation, waterways, water supply sources, communications, electric power, landscape, and settlements. Each copy numbered to control number of copies issued.

Army manuals on terrain and technical surveys are numbered in the 40 series. General type of manual is "Herres Dienstvorschriften", or Army regulations. Numbers of manuals are 40/14, 28-30a, 40, 53-55, 67, 78-9, 82, 89-92, 94 a&b, 95, 99-102, 107, 112-13, 116-20, 122-24, 131, 133-4, 142, 149, and 156. Others are on the Netherlands. (Hdbv. p. 93), Poland (44), Czechoslovakia (124), and defense against espionage, sabotage, and disintegration of the Wehrmacht (no number). Manual No 99 is a classification of the handbooks.

Manuals bearing no numbers also survey on Central European countries, Russia, and Near and Middle Eastern Regions. Road maps, city plans, highway maps, etc., are included. Maps and photos showing bomb targets of areas in England are included in a manual on England.

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

1 June 1945

INVENTORY REPORT

LOT: I. G. Farben Archive, Berlin. Present Location: XIX Corps Document Center, Bldg No. 2.

CLASSIFICATION: Scientific and Research, Business and Economic.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: SHAEF Economic Branch (Production Control Branch).

DETAILED LIST

No. (of files books, docs, etc)	Subject and Author or Originator	Periods Covered
1 file	Reports of experiments with soy beans, sunflower seeds, dairy & oil products in various countries.	1937-43
1 file	IG correspondence with Reichsgruppe Industrie.	1937-42
1 file	IG interest in India	1933-39
1 file	Minutes of session of E. Asia Committee-IG (incl information on Japan)	1935-43
1 file	Contracts on crude oil refining.	1926-42
1 file	IG international projects, incl Japan.	1937-40
1 file	Bank statements of "Bank der Deutschen Luftfahrt" (Duplicates)	1939-44
4 files	Monthly total turnovers	1927-44
1 file	IG correspondence re: dyes contracts, Germany, France, Switzerland.	1929-30
1 file	Correspondence on dyes transactions - IG	1927-36
1 file	Gasoline and crude oil contracts	1926-33
1 file	Hydrogenation in Hungary	1937
2 files	Import-export of "Blei Tetraethyl"	1938-40
1 file	Correspondence on Bayer Export Plan (1940)	1940-43
1 folder	Records of monetary gifts to IG, to be used for "confidential purposes" (incl Japanese interests).	1937-40
1 folder	Correspondence on synthetic gems - from & to IG. (Countries involved: US, Switzerland)	1935-40
1 folder	Correspondence on founding and financing of German-French Dye Trust "Francolor".	1941-44
1 folder	Applications for participation in IG projects	1929-41
1 folder	Crude oil delivery contracts.	1931
1 folder	Correspondence re IG activities with banks and stockmarkets, w/ special annex - "Leipzig".	1927-28 1935

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LOT: I. G. Farben Archive (cont'd)

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods Covered
1 folder	IG correspondence with "Deutsche Dynamit AG"	1935-43
1 folder	Correspondence with Amsterdam bank, re investments in coal mines	1938-40
1 folder	Requests for credit, directed to IG	1932-34
1 folder	Reports on oils gained in Germany	1930-31
1 folder	IG - Correspondence about fuel purchases from Holland, Belgium, US, and about fuel deliveries to Poland.	1934-36
1 folder	IG - Correspondence re purchase, exchange, etc, of shares.	1938-40
1 folder	IG Real Estate transactions.	1934-39
1 folder	IG business reports.	1938-42
1 folder	IG patent matters - general	1930-43
1 folder	Correspondence and reports on oil within Germany and foreign countries.	1931-32
1 folder	Correspondence, re taking over "v. Genschow" shares.	1940-43
2 folders	Correspondence on purchase & offers of stocks.	1928-42
1 file	Correspondence with Appolo Mineral Oil AG, Preshurg, Slovakia.	1939-43
1 folder	Correspondence re raising capital of Dynamit AG (Rahel).	1940-41
1 file	Kulle & Co - purchase of a process from Shelmar, Chicago.	1938-39
	Polocel-Durn - correspondence with Fishing Corp, Chicago.	1936-40
	Import and improvement of Pankreas Glands (Pigs)	1935-36
1 file	Notes on Imports	1943
1 file	IG correspondence with representatives of the firm in Germany & foreign countries.	1929-41
1 file	IG - list of attorneys, foreign & domestic	1938-42
1 file	IG - correspondence w/ Japhet & Co, Klein-wort & Sons, Henry Schroder & Co, all London.	1938-42
1 file	Deumag - financial and contract corres.	1941-42
1 file	Correspondence concerning Weissenstein Konzern & Deutsche Gelatine Fabriken.	1927-34
1 file	Correspondence re sulphuric acid, with foreign countries.	1941-43
1 file	IG contributions and endowments.	1930-40
1 file	IG - correspondence with National City Bank of New York.	1926-32

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LOT: I. G. Farben Archive (cont'd)

No. (files, books, docs, etc)	Subject and Author or Originator	Periods covered
1 file	IG - correspondence with International Acceptance Bank, NY	1926-32
1 file	Correspondence with Pallace Insurance Co	1935-39
1 file	IG - correspondence re foreign exchange laws	1942-43
1 file	IG correspondence with "Deutsche Gasoline AG"	1937-39
1 file	IG correspondence concerning Deutsche Industrie Bank	1932-40
1 file	IG-financial correspondence with "AG Dynamit" (Nobel), Pressburg.	1939-41
1 file	IG correspondence re sale and purchase of sulphuric carbon	1940-43
1 folder	IG correspondence with and concerning Deutsche Gasoline AG	1930-39
2 files	Applications for foreign exchange	Jan,Mar 38
1 file	- do -	Jan,Feb 39
1 file	IG correspondence concerning periodicals	1938
2 files	IG correspondence with firms making "Indanthren" (fast color for textiles)	Jun 40-Jun 41
1 file	IG - administrative circulars	1937-40
1 file	Correspondence concerning Dynamit AG, Troisdorf.	1938-39
1 file	IG correspondence with Norway and Sweden re "Sulfit Zellstoff".	1938-40
1 file	IG interoffice correspondence with IG Central purchasing office.	1941
1 file	Correspondence re Molybdenum ore.	1938-40
1 file	Correspondence on technical imports.	1938-39
1 file	Concerning "Heavy Water"	1938-40
1 file	IG - raw material payments	1938
1 folder	Patent rights	1937-43
2 folders	DuPont-Namur patent rights - licenses.	1939-44
1 folder	Concerning Magnesia from Greece, Holland, Yugoslavia and others.	1938-39
1 file	IG products	1937-39
2 files	Concerning metals exports and imports	1940-41
1 file	Concerning Naphta Acid (foreign)	1938
4 files	Concerning war economic measures	1939-44
1 file	Correspondence re textile-treatment, oil and fat refining, US.	1930-33
1 file	IG interests in enemy countries	1940
1 file	Financial matters concerning Japan	1938

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LOT: I. G Farben Archive (cont'd)

No. (files, books, docs, etc)	Subject and Author or Originator	Periods covered
1 file	Trade agreement concerning Nitrogen and Chile salpeter	1924-31
1 file	Purchase of IG synthetic gas by Standard Oil and Royal Dutch.	1927-29
1 file	Concerning synthetic gas (Leuna)	1928
1 file	Correspondence concerning business w/Finland and France in "Leuchtfarben & Labkasein"	1940-41
1 file	Concerning IG chemical tests	1940-44
2 files	Concerning Wolfram imports (incl Jap interest)	1938
1 file	IG shipping records for sulphur ore	1938
7 files	IG dealings in light metals (1 file of Jap interest)	1929-42
1 file	Concerning synthetic rubber	1929-42
2 files	Concerning manufacturers of explosives	1924-32
1 file	Correspondence on "Flusspat" (Chemical?)	1930-44
3 files	Records concerning IG activities w/plastic materials	1930-33
1 file	Concerning synthetic fertilizer & nitrogen	1925-32
2 files	Concerning nitrogen production in America	1927-32
	E C O N O M I C S T U D I E S	
1 file each on the following countries:		
	Australia	1935-38
	Belgium	1937-40
	Thailand (Jap interest)	1937-41
	Italy	1940-43
	Syria	1937-41
	Greece	1940-41
	Iraq	1940-41
	France	1939-41
	Bulgaria	1940-43
	Holland	1938-41
	Switzerland	1938-41
	Yugoslavia	1939-41
	China (Jap interest)	1939-41
	Finland (2 folders)	do
	Spain	do
	Philippines	do
	Norway	do
	Sweden	do
	Portugal	do
	Denmark	do
	Indo-China (Jap interest)	do
	Straits Settlement	do
	Poland	do
	Sudetenland	do
	Lithuania	do
	Czechoslovakia	do

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LOT: I. G. Farben Archive (cont'd)

No. (files, books, docs, etc)	Subject and Author or Originator	Periods covered
ECONOMIC STUDIES cont'd:		
	Egypt	1939-41
	Rumania	do
	Palestine	do
	Iraq	do
	Estonia	do
	Crontia	do
	Afghanistan	do
	Latvia	do
	USS	do
1 file	Concerning Oil, slate occurence	1928-36
1 file	Concerning general internat'l oil dealings	1929-44
1 file	Concerning soy bean plantation (incl Jap int)	1935-40
1 file	IG correspondence concerning iron powder with Ferrocart Corp of America	1935-38
1 file	Liquefaction of coal (foreign - incl Jap)	1927-35
1 file	General correspondence w/ Kali Syndicate, concerning fertilizers	1924-35
1 file	Correspondence w/ Brown Bros, NY concerning IG financial matters.	1927-29
1 file	Concerning licorice dealings w/foreign countries	1938-39
3 files	"Aryanization" of affiliated foreign firms (Roth Brothers)	1938-39
1 folder	Correspondence with Norway concerning Titanium	1938-39
1 folder	Reports of the "Buro des kaufmaennischen Ausschusses"	1938-39
1 folder	Confidential turnover and other figures (incl Jap interest)	1928-40
15 books	Turnover of branches of IG	1927-40
1 folder	Report of study trip to all IG plants made by German chemist	1938-39
2 folders	Lists of acquaintances of Dr Ilgner in the Far East (including Japan)	1934-35

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Camp Dentine

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INVENTORY REPORT Sheet No. _____

LOT: Gestapo HQ, ERFURT At present: XIX Corps Library, Documents Section

CLASSIFICATION: CI

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

No. (of files, books, pcs, etc)	Subject and Author or Originator	Periods Covered
4 Cases	Loose records - arrest orders. Dissolving orders for organisation clubs. Confiscation orders for newspapers. Clergy Reports. File on Communist Party. File on Anti-German Activities.	1927-45
11 Booklets	Lists of prohibited literature	1935-42
1 Folder(s)	Visas	1940-41
1 "	Orders for arrests	
1 "	Police orders since start of war	
1 "	Regulations for Germans returning from the French Foreign Legion	1940-41
1 "	General German ordinance	1939
1 "	Volkssturm - air raid warden	
1 "	Orders for the arrest of assassinators - report, planned assassinations against Mussolini	1937
1 "	Memoranda	
1 "	Pertaining to the apostolenic letter	1940
2 Booklets	History & mission of the SS of the NSDAP	
2 "	Manuals for the transport of prisoners	
2 "	Files and telegrams	Jan.-June 1937

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

LOT: Records from FKV (Friedrich Krupp Versuchsanstalt) Experimental Institute. Present Location: XIX Corps Documents Center Library.

CLASSIFICATION: Scientific and Research

AGENCY TO WHICH COLLECTION IS DUE OF INTEREST: CIOS, ALSOS

DETAILED LIST

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods Covered
6 Rolls	Films	
1 Folder	Covering experiments on coal	1942-44
20 Folders	Experiment reports of the Experimental Institute (by subject)	1939-44
10 Folders	Monthly reports of Experimental Institute	Jan - Oct 1944
1 File	Listing all personnel of experimental institute as of 1 July 1944	1 Jul 44
1 File	Yearly reports of experimental institute	1933-43
6 Files	Quarter-annual reports of experimental institute	Oct 34 - June 44
9 Folders and) 1 Envelope)	Indexes according to various classifications (Author, subject matter, etc)	Not indicated
1 Folder	Covering the institution of the basic filing system of FKV	1939-44
1 Folder	Containing originals of "Haertetiefekurven"	Not indicated
2 Folders	Containing graphs of "Dutterpausen"	Not indicated
1 Book	"Flieg.-Werkstoff" handbook	1935-42

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LOT: Records from FKV (cont'd)

No. (of files, books, docts, etc)	Subject and Author or Originator	Periods Covered
1 Folder	Manufacturing processes of various chemicals	Not indicated
1 Folder	Exploitation of experiments in "Zellstoff" and paper industry	Up to 1944
1 Folder	Studies on resistance to salpetric acid	Up to 1944
1 Folder	Studies on reactions of steel in "Wolf & Knoben Verbuckerung"	Not indicated
1 Folder	Records on "Chromierungsversuche"	1939-41
1 Book	Published works of Dr. Bennek	1931-44

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III CORPS DOCUMENTS CENTER
Camp Gruber

2 June 1945

INVENTORY RECORD

LOC: Foreign Exchange Office Magdeburg, Prov.
Present location: Bldg. 2, III Corps Document Center

CLASSIFICATION: Business & Economic

AGENCY TO WHOM ORIGINAL WAS OF INTEREST OR INTEREST:

DESCRIPTION

No. (of files, books, items, etc.)	Subject and Author or Originator	Periods Covered
approx 1700 files	Correspondence & files of 'Devisenstelle Magdeburg' (Foreign Exchange Office)	1931-45
2 & 1/2 boxes 3x2x2 ft.	Lists of persons who had lost German citizenship after 1937	
8 file drawers	Lists of importers and exporters.	1935-45
28 file drawers	Apparently records of foreign exchange issued to individuals and firms. May also be record of deposits of such persons.	

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LIBRARY REF

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SIX YEAR DOCUMENTS ORDER
Map Destroy

INVENTORY REPORT

DATE OF TRANSFER OFFICE - WASHINGTON

DESIGNATION OF _____

AGENCY TO MAKE OBJECTION IF DESIRED OF ARCHIVES _____

DESCRIPTION

No. (of files, books, boxes, etc.)	Subject and Author or Originator	Period covered
1 folder	Inspection reports of various industrial concerns	1939-42
" "	Road safety	1936-39
" "	Signs	1942-45
" "	Several loose records	1939-44

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

LOT: ERMA - Armament Works - HARPURT

CLASSIFICATION: _____

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

No. (of files, books, doc's, etc)	Subject and Author or Originator	PERIODS COVERED
1 book	Manual on Organisation, Equipment, & weapons of Foreign Armies	1939
1 manual(s)	Handling of Machine Gun 13 (1dSYSM)	
1 "	Elevation firing for M.G.	1935
1 "	Zeroing In of Small Arms	1936
1 "	Inspection of the Lt. Howitzer 16E	
1 "	Machine Pistol 18-1	1920
1 "	Bicycle	1936
1 "	Drying & Storing of Lumber	1943
1 "	Tug on Heavy Mortar 34 (8cm)	1939
1 "	Pistol '08 (Luger)	1936
1 "	Rifle 98K	1935
1 "	Respirator 703 (2)	1942
1 "	Rifle Cleaning Kit 34	1935
1 "	Light Field How '18 - HD & TD	1936
2 "	" " " '16 -	1937-38
1 "	Long & Heavy - Field How 13 & 13/02	1935
1 "	Heavy Field How '18 HD & TD - " 10cm Cannon HD & TD	1940
1 "	Long 21 cm Mortar	1937
1 "	3.7 cm AT gun	1940
1 "	Artillery Calculating Table 28	1935

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LOT: Erma - Armament Works - ERFURT (cont'd)

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
2 manual(s)	Common Army Equipment for HD veh.	1936
1 "	Caisson	1936
1 "	List of MG parts	1935
2 "	Safekeeping of Arms & Equipment of Troops	1938
1 "	How to connect sight on rifle 98	1936
1 "	Inspection procedure for Ballbearings on axles	
1 folder(s)	Blueprints for Machine Pistol 3228	
1 "	" " " " 3229	
1 "	" " " " 43	
1 "	" " Volksgewehr	
1 sample(s)	Machine Pistol	
1 "	Barrel for an MP	

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PIH 2789/15

LIBRARY AUG

XIX CORPS DOCUMENTS CENTER
Camp Dentzke

INVENTORY REPORT

LOT: Ergaenzungsamt der Waffen SS, Ergaenzungsstelle "West". Source: XVI Corps. Present location: XIX Corps Document Center, CI Library

CLASSIFICATION: CI - Military

AGENCY TO WHICH DOCUMENTS IS DEEMED OF INTEREST: CI

DETAILED LIST

No. (of files, books, docts, etc)	Subject and Author or Originator	Periods Covered
86 Files	Personnel records of SS Casualties (killed, captured and missing in action) as compiled by SS Ergaenzungsstelle West VI (Equivalent to SS draftboard for Wehrkreis VI)	1941-45
9 Files	Records of foreigners who volunteered for the Waffen SS and were rejected for undesirable traits of character or physical reasons	1943-44
7 Files	Letters of transmittal of personnel records - originating from Ergaenzungsamt der Waffen SS West and directed to various Army Wehrbezirkskommandos	1944-45
1 File	Correspondence from various Army Wehrbezirkskommandos to Ergaenzungsamt der Waffen SS West	1944-45
1 File	Discharge records of German nationals, released from the Waffen SS	1944
1 File	General miscellaneous correspondence (From & to Ergaenzungsamt der Waffen SS West)	1944-45
1 File	Records of faulty and obsolete Soldbuecher (sent from Ergaenzungsamt der Waffen SS West to various Wehrbezirkskommandos)	1943-44
1 File	Records of outbound draftees	1944-45
1 File	Official travel orders	1944-45

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LOT: Ergaenzungsamt der Waffen SS (cont'd)

No. (of files, books, doc's, etc)	Subject and Author or Originator	Periods Covered
1 File	Questionnaires and records of SS men who were assigned to duty as propaganda and recruiting orators	1944-45
1 File	Correspondence concerning personal affairs of SS HCO's and KM	1944-45
1 File	Notifications of death - addressed by the Schutzpolizei (Schupo) to Ergaenzungsamt der Waffen SS West	1944
2 Files	Enlistment records (by name) of men enlisted in the Waffen SS	1944
1 File	Records of transfers of individuals within the SS	1943-44
1 File	Records of individuals accepted for the Waffen SS	First Qtr 1945
1 File	Correspondence of Ergaenzungsamt der Waffen SS with other Wehrbezirkskommandos re status of Wehrpflichtige	1943-44
1 File	General Orders and Special Orders of the "Reichsführer SS"	Jan - Nov 1944
1 Folder	National Socialist Indoctrination material	1944-45
1 Folder	Orders from the garrisons at Munster and Duesseldorf	1945
1 Folder	Induction records (Covering also induction in special units)	1943-44
6 Folders	Administrative Records	1943-45
1	SS Locator File	
4 Files	SS Wehrstammrollen	

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LIBRARY AD/I

XIX CORPS DOCUMENTS CENTER
Camp Dentine

1 June 1945

INVENTORY REPORT

LOT: DKZ (German Central Congress) Archives, Files, and Records. Source: Berlin W 35, Derfflingerstr. 10. Present location: XIX Corps Library, Documents Center.

CLASSIFICATION: Counterintelligence and Political.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: CIC, Judge Advocate, and MD.

DETAILED LIST

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods covered
30 file boxes	Alphabetical list of persons travelling to foreign countries.	1936-39 Some as late as 42.
7 large files	Interpreters and translators	1936 to present
1 carton	Files of Brussels Propaganda Office	1940 to present
1 carton	Yearbooks to DKZ	1920 to present
1 box	Copies of "Das Reich" Propaganda newspaper	1940
1 file	Telegrams to Hitler	1939-42
1 carton	Correspondence on highways & waterways	1937-39
1 box	Files on radio, photography, marine signalling, propaganda, travel.	1938-39
1 file box	Colonial economic conference	1942
1 box	Archives on banking, economics, miscellaneous	1938
10 bundles	"Joy and Work", propaganda magazine.	1938-43
10 cartons	Agenda, notes and records of various congresses and conventions - mostly scientific.	1906-43
1 carton	Historical studies of revolutions (Chinese, Mexican, etc.)	Various
30 bundles	Illustrated books on German cities	- - -
12 crates	Clippings and publications of scientific societies.	1920 to present

REMARKS: Alphabetical index of persons who travelled into foreign countries between 1936 and 1939 contains names and addresses of applicants. Apparently all persons leaving Germany for study or research in foreign countries at that time were required to register with the DKZ, which transmitted the information to various other agencies, such

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LOT: DKZ Archives (cont'd)

REMARKS (cont'd):

as the Foreign Office, Propaganda Office, the Armed Forces, and others. Before leaving, applicant was investigated by the SD, and, if found unreliable, was denied the privilege of leaving Germany. File cards record this information, as well as proposed dates of travel, amount of currency requested and granted for the trip, fees, and main reason for travel, which in most cases was given as "Study trip", or "Research". All European countries were visited, as well as most other countries of the world, including the United States and Canada. It is possible that during the trip the traveler may have carried out other missions besides study, which may have been assigned by the various agencies notified. This information may be of possible interest to CIC and the Judge Advocate by providing a method of checking on such persons to determine whether they obtained military information abroad. While most dates are between 1936 and 1939, a few entries record travel to European countries as late as 1942. Detailed study of the files has not been made thus far, but the following are samples of data found:

Friedrich von Homeyer, editor of Transocean News Agency - propaganda trip "abroad", March 1939.
Anton Huber, travelled to Slovakia in 1940 on orders of the SS.
Karl Kurt Holter made a trip to SE Africa in 1936 on recommendation of German Foreign Office.
Prof Dr Nägel, trip in November 1937 to England financed by German Air Ministry.
Gross, of the NS Dozentenbund (NS Association of Professors), travelled to Tokio, contacted by Foreign Office, Propaganda Office, etc.
Schamper, Josef - went to France representing Criminal Service of the Gestapo.
Schantung Handels Aktiengesellschaft financed "research and geologic expedition" to Labrador in 1937.

Interpreters and translators files represented at least twenty-five languages of all parts of the world. Files contained names of "approved" persons, whose cards of identification are red. Other card colors are as follows:

Orange = Conference interpreters
Red = Microphone interpreters
Yellow = Negotiation interpreters
Blue = Discussion interpreters
Green = Confidential interpreters
Dk Red = Travel interpreters
Dk Blue = Translators

These files may be of interest insofar as they give the background of the individual interpreter, and may be clues to his subsequent activities. Samples of data contained in files:

Bennecke, Hans-Georg, fluent in Japanese and English. 5 years residence in Japan. Last occupation in research Department of Air Ministry.

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LOT: DKZ Archives (cont'd)

REMARKS (cont'd):

Elster, Rudolf, fluent English and French; member of SD; resided in Brussels. Party member since May 1933.

Sande, Albert von der - member of Netherlands Nazi Party since 1934.

+ + + + +

Other miscellaneous records and archives of the DKZ on hand may contain files which, when combined with the first two listed, may give further clues to activities of persons listed. Preliminary investigation revealed a file on tourists and travelling which may have some connection with those just mentioned. Other archives and literature appear to be merely records of scientific proceedings, researches, and conferences. Only a superficial examination of this material has been made at this point.

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

1 June 1945

INVENTORY REPORT

LOC: Central Office of Textile Industry, BERLIN. Present Location: XIX Corps Library, Documents Center.

CLASSIFICATION: Research, Business and Economic.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: CIOS.

DETAILED LIST

No. (of files, books, cases, etc.)	Subject and Author or Originator	Periods Covered
10 Envelopes	Bills for Italian Silk Exports to Germany	1944-45
2 books	Stock Records	1944-45
1 book	Receiving Reports	1945
1 folder	Correspondence concerning wool and general planning.	1943-45
1 folder	Correspondence & re-applications for manufacture of Silk. List of all silk dealers & weavers.	1945
1 folder	Tests of Silk. Reports on experiments	1941-44.
1 folder	Data on Silk	1940-41
1 folder	Instructions for the use of monthly reports.	1944
1 folder	Needs of Silk for the manufacture of silk thread.	1945.
1 folder	Personal correspondence. Dr Westain Milk, Italy.	1945
1 folder	Contingent reports '44 GAF & G Army & Product. Instructions for 1945.	1945.
1 folder	Production Reports.	1945.
1 folder	Inspection Reports.	1945
1 folder	Reports on Bolting Cloth.	1941-45
1 folder	Reports on 100% artificial Silk.	1944-45
1 folder	Price lists & price control reports on Silk.	1944-45
1 folder	Manufacturers of Silk in Czechoslovakia	1943-45
1 folder	Manufacturers of Silk in Hungary and Poland; also confiscation of stocks.	1941-45
1 folder	Production records of Welschappe, Schappe & Cordonet.	1944-45

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LOT: Central Office of Textile Industry (cont'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
1 folder	Radical stitching thread & use of Silk for cable fittings.	1944
1 folder	Losses through enemy action.	1944
1 folder	Administrative correspondence.	1945.
2 folders	General correspondence.	1945
1 folder	Instructions.	1945
1 folder	Correspondence - distribution of raw materials.	1945.
1 folder	Circulars	- - -
1 folder	Re-applications for the manufacture of Textiles.	1945.
1 folder	Preliminary statistics on the need of raw materials & orders about distribution of such to different companies	1944
1 folder	Statistics about the future needs of textiles by the Wehrmacht. Purchase permits to textile firms. Correspondence of German Army & Navy.	1943-45
2 folders	Raw material planning concerning production of yarn.	1943-45
1 folder	Stock reports of different textile firms	1945
5 folders	Textile production records.	1942-44
2 folders	Special requirements of the German textile industry.	1944
1 folder	Regulations for German textile industry	1941-45
1 folder	Felt & felt cloth weaving mills	1943-45
1 folder	Textile production - various papers.	- - -
1 folder	Instructions pertaining to use of Universal Check System in industry.	- - -
2 folders	Various correspondence & papers of Textile Industry; also product records & production plans.	- - -
2 folders	Textile production instructions & specifications by: a. Armed Forces; b. Other authorities; c. General.	1940
1 folder	Production instructions & specifications of & for Cotton Weaving Industry.	1940-41.
5 folders	Plans & prod. specifications for various textile industries.	1938-44
1 folder	Shoe production progress & correspondence of German shoe factories.	1944-45
1 folder	Contingents & instructions for production proceedings for Lanital & Asbestos.	1944-45
1 folder	Price ceilings for various yarns.	1945
1 folder	Use of available materials.	1944

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XII CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

LOT: Army Ord Procurement Office - BERLIN-WITTENBERG

CLASSIFICATION : _____

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

No. (of files, books, doc's, etc)	Subject and Author or Originator	Periods covered
1 booklet	Shell Data	
1 bundle	Corresp. - bills, for machines & materials for ammo production	1944-45
4 folder(s)	Technical Data & Corresp. on various shells and ammo	1944
2 "	Technical Data on ammo production machinery	1941
2 "	Contracts & Price settlements. 3.7 cm 30 shell	1944 & 1945
8 leaflet(s)	Reichs Ministry for Armament & War Prod	1944
1 booklet(s)	Data on all German ammo	from 1940 on
1 "	What Are We Fighting For?	
1 "	Handling of Classified Material	1943
1 "	Ammo	1944
2 "	Procurement Numbers for Army Ammo	1941
1 "	Instruction for Technical Reports in the Armament Program	
1 "	Secret of the Japanese Power	

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

LIBRARY AD/I

1 June 1945

INVENTORY REPORT

LOT: Personal and official files of R. Walther Darré. Source: VIII Corps CIC. Present location: XIX Corps Documents Center.

CLASSIFICATION: C1, Paramilitary, Political, Administrative, Historical, Business & Economic.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: CIC, Judge Advocate.

DETAILED LIST

No. (of files, books, docs, etc.) (1 small trunk containing):	Subject and Author or Originator	Periods Covered
1 file	Personal Miscellaneous Correspondence	1938-41
1 file	Copies of letters to Hitler	1938-39
1 file	Statutes of "Verein für Bauerntumskunde"	1939
1 file	Statutes of "Gesellschaft der Freunde des Deutschen Bauerntums"	
1 package	Postcards from Darré to his father	1915-16
2 albums	Personal photos	
1 notebook	Raising of poultry	
1 folder	Plan for an agrarian dept. for the NSDAP (Photocopies)	
1 folder	Draft of a letter to Hitler	1941
1 folder	Correspondence concerning Real Estate, Wiesbaden	[illegible]
9 folders	Correspondence with Himmler	1936-40
2 folders	Correspondence concerning support of divorced wife and child	
4 envelopes	Telegrams and greetings (personalities)	
1 sketchbook		
1 envelope	Insurance policies	1915
1 family-book	Marriage certificate	1931
2 envelopes	Boyhood letters	
1 file	Personal certificates	
1 file	Letters from Darré's wife	1937-44
1 file	Correspondence and projects	
	Various Artillery maps of World War I	
1 list	Papers and documents of Archives, Goslar	
1 file	Duel negotiations: Darré vs. Duisterberg	1932

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(LOT: Personal and official files of R. Walther Darré, con'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
3 files	Personal Political Correspondence	1933,34,39
2 vols	Letters of his daughter Annaliese Darré	1930-41
1 vol	Letters from his daughter Elin Darré	1939-41
1 vol	Congratulatory letters and telegrams from high SS leaders on birth of daughter	1938
1 vol	Congratulatory notes from Reichs Farmers' Council	1938
1 vol	Congratulatory letters and telegrams from ranking German personalities	1938
1 vol	Miscellaneous congratulations	1938
1 vol	Correspondence with Mrs Charlotte Danz	1937
4 vols	Labelled "Revolte 1937"- Court orders on accusations against certain officials	1937
3 vols	Correspondence in connection with election campaign tour	1936
1 folder	Regulations involving cooperation of Stabsamt	
1 folder	Proof and correspondence on Georg v. Grünhagen's work "Unknown Finland"	1938
1 folder	Correspondence on Portschy's Memorandum "The Gypsy Problem"	1939
1 folder	Distribution Key to Darré's book "Thoughts on the Origin of Domestic Animals"	1937
1 folder	Correspondence on the regulation "Farm leaders leaving the Church"	1940
2 folders	Regulations by Darré (compilation)	1933-39
1 folder	Correspondence concerning territorial adjustment of Reichs Food Administration to the Nazi Party	1939
1 folder	Correspondence concerning Hunting	1939
1 folder	Index of rural museums	1941
1 folder	Correspondence concerning "Dorfbuch"	1938
1 folder	Bird Protection	1941
5 folders	Correspondence with publishers concerning "Blut & Boden"	1935-41 (incomplete)
1 folder	Correspondence between Gestapo and "Verlag Volksbuch" publishing house re. book "Our Reichspeasant Leader and his Comrades"	1934
3 folders	Notes on 4th Reichspeasant Convention at Goslar	1936

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(LOT: Personal and Official files of R. Walther Darré, cont'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
1 folder	Correspondence regarding Compensation for evacuated farmers	1940
1 folder	Correspondence honoring farmers for war effort	1940
1 folder 1 folder	Correspondence Darré and Himmler Memorandum	1939
1 folder	Correspondence "East Settlement Himmler"	1939
1 folder	Correspondence with Goering	1939
1 folder	Notes on Dr. Schiller, Moscow	1936
1 folder	Correspondence with Dr. Behrense	1940
1 folder	Re Willikens	1935
1 cardboard box	Dismissal of Party member Habbes	1937
2 folders	Labelled "Eigenkanzlei" containing essays and letters	
1 folder	Photostatic copy of the project: Building an agrarian-political net throughout the Reich	1930
1 folder	Re. Reichert	1941
1 folder	Various letters	1937
1 folder	Darré's speech in Weimar, 23-24 Jan	1936
1 folder	Yearly balance of Reichs Food Adm	1936
1 folder	Bibliography of Darré's works	
2 folders	Notes on "Biological-dynamic economy"	1939-41
1 folder	Proposed RR projects to Russia	1939
2 books	Forefathers of R.W. Darré	
4 diaries		March 18, 1941-March 18, 1945
1 diary	First World War	
21 folders	Genealogy of Darré- Correspondence, Notes and Documents	
2 vols	Genealogy of v. Vietinghof	
1 folder	Family Tree of Luttger-Scheidweiler	
2 books	Genealogies of Rost and Altendorf	
2 files	Correspondence and propaganda for Gymnastics	May 39-July 41
7 files	Correspondence with Artists employed for propaganda purposes	1935-39
1 file	Documents on German food problems (marked Secret State Matter)	1939-41
1 file	"Acte Morit" Documents of Food Situation	1937

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(LOT: Personal and official files of R. Walther Darré, cont'd)

No. (of files, books, docs, etc.)	Subject and Author or Originator	Periods Covered
1 file	Documents and Correspondence of SS Central Office for Race and Colonization; also SS Special Orders	1936-38
1 file	Documents about Section W for Treatment and Execution of Special tasks	1939-41
2 files	Rules and orders for personal staff	1932-42
2 files	Various documents	1934-42
2 files	Correspondence about Thanksgiving Festival	1935-39
1 file	Correspondence of the NS Landpost	1937-39
1 file	Farming School Goslar	1936-42
1 file	Farming Schools in general	1935-41
2 files	Correspondence with Nordic Society	1935-41
1 file	Correspondence with Propaganda Committee for Swimming	1936-38
1 file	Political aspects of birth-rates among peasantry	1937-39
1 file	Association for peasant genealogy and heraldry	1935-42
2 files	Correspondence on Farmers' School "Haus Neuenburg"	1936-41 (incomp)
1 file	Correspondence on rural libraries	1936-39
1 file	Society for Advancement of Peasant Art and Culture	1941-42
1 file	Society of Friends of German Peasants. Correspondence with members and photographers	1940-1941

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XIX CORPS DOCUMENTS CENTER
Camp Dentine 1 June 1945

INVENTORY REPORT

LOT: Krupp Armament Works. Present Location: XIX Corps Library, Documents Center.

CLASSIFICATION: Military, Scientific and Research, Business & Economic.

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: NAVTECIN, CIOS, ALSOS

DETAILED LIST

No. (of files, books, doc. etc)	Subject and Author or Originator	Periods covered
1 folder (s)	Accounts on production	1943
1 do	Technical diary; spec. offer of machines, parts	1941
1 do	Extracts of Labor Laws	- - -
1 do	Correspondence about repair of warships	1939-41
2 do	Blueprints & technical diary on Transmissions	1944
1 do	Production reports	1938-43
1 do	Official instructions (on production)	1944
25 do	Information on armed ships and destroyers	1935-41
8 do	Information on the Navy	1939-41
2 do	Plans for the defense against air attacks	1937-42
1 do	Instructions on wages	1930-42
1 do	Technical diary of the S-Mortar	1942-44
1 do	Information on press machines	1938-40
2 do	Technical diary of the Walter-Kiel Factories	1943-44
2 do	Correspondence on movements of plants	- - -
2 do	Technical data about moratrs, prod. Project "S"	1938
1 do	Planning of mortars, Project "S"	1937
1 do	Planning of mortars, Project "S"	1938
1 do	Planning of factories for mortar production	1937-38
1 do	Correspondence concerning manufacture of machines for K 3	1939-41
28 do	Production data	1937-38-39
3 do	Correspondence and technical data production reports to Army and Navy	1942-43
6 do	..... to Navy	1940-41
90 leaflets	Technical reports	1938-43
2 envelopes	Pictures of machinery	- - -
1 album	Pictures of employees	- - -
1 book each for periods listed	Work and production reports	1936-37; 37-38; 38-39; 39-40; 40-41; 41-42.

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NOT: Krupp Armament Works (cont'd)

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods covered
6 leaflets	Technical rationalisation committee of the Fried Krupp, AG	2d half 42 end 1943.
1 folder	Production plans on different parts for armor	?
1 folder	Blueprints of factory constructing machinery	-
2 folders (s)	List of drawings	-
do	Correspondence & data pertaining to 5 cm AA-c/41	-
do	AA car with 8.8 cm t/71	-
do	DRA. A.A. c/34f "B3"	-
1 do	Correspondence pertaining to new production of mortar "R.F.K. - Rolo	1938-41-42
do	Plans for material	1938-39-40
do	Technical plans & corresp on gun turret c/34	-
do	Financial report on machinery	1937
do	Rationalization manufacturing plans	1942
do	Corresp regarding financial needs for upkeep of machinery	1937-39
do	Technical data for battery S & A	-
do	Construction & manufacture of machinery & equipment for gun turrets	1937-40
do	Rationalization & upstepping production	1942
do	Production records	1942
do	Corresp & tech data about engraving plant	1943-44
do	Tech data on battery OLDENBURG and Friedr August	1942-43
do	Responsibility while handling the mounting of armor	1936-38-39-41
do	Reconstruction of Cast Iron Plant	1943-44
do	Corresp w/Gruson Works, Magdeburg, re assault guns, etc.	1944
do	Production plans	1938
do	General memoranda	-
do	Production plans for c/34f Battleship "H"	-
do	Corresp about firing apparatus for Port of Gotenhafen	1940-41
do	Corresp about wages & payments; instructions to Krupp workers working abroad.	1942
do	Corresp on firing apparatus for Port of Gotenhafen.	1941
do	Corresp re tech details for firing apparatus installations in Port of Gotenhafen	1941

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LOT: Krupp Armament Works (cont'd)

No. (of files books, docs, etc)		Subject and Author or Originator	Periods covered
1	folder (s)	Corresp on tech details pertaining to mounting works on different battleships & cruisers	-
6	do	Accounts on labor needs	1937-44
6	do	Cost of wages, overtime pay, etc	1929-41
5	do	Information on air raid damage	1943
1	do	Corresp about 24 cm gun	1939-41
2	do	Corresp about firing apparatus of 34.5 cm naval gun	1940-41
1	do	Corresp and photos on & of automatic weapons	1939-40
1	do	Report of production results	1938-45
1	do	Practical diary of labor employment	1943-44
1	do	Corresp & plans re construction bridge across Elbe River	1939
1	do	Corresp re construction "Grosse Kurfürst" 28 cm gun	1941
2	do	Corresp & plans for reconstruction of captured Holland 24 cm guns	1940-42
1	do	Practical diary on repairing captured equipment	1943
1	do	Corresp on "Gross Deutschland" & other naval guns	1941
1	do	Corresp & practical diary of "Rosenberg" battery	1942-44
1	do	Corresp & practical diary on production of automatic weapons	1941-42
1	do	Corresp and practical diary on refitting of captured French guns of 24 cm	1941
1	do	Accounts on labor needs in the armor and 10.5-cm gun industry	1941
2	do	Corresp on firing apparatus	1940-41
1	do	Corresp on, and blueprints of navy guns	1935
1	do	Blueprints & corresp on installations on battleships	1935
1	do	Corresp about construction of navy installations	1941
1	do	Corresp re construction of navy installations along Channel coast	1941
1	do	Corresp on parts of firing apparatus	1941
12	do	Corresp about a firing apparatus	1940-42
1	do	Corresp & plans on firing apparatus	1939
1	do	Corresp & production instruction about a firing apparatus for Army and Navy	1940
3	do	Corresp, production, plans, blueprints on & of firing apparatus	1939, 41, 42
1	do	Delivery time limits for different weapons parts	1941

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LOT: Krupp Armament Works (cont'd)

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods covered
1 folder (s)	Reports on jobs done on board cruiser "Prince Eugen"	1939
1 do	Corresp on igniting apparatus	1940-41
1 do	Corresp & reports on captured guns	1940-1
1 do	Correspondence on distribution of orders for electric installations	1943-44
2 do	Corresp, protection reports, charts, etc, on special steel belts.	1943-44
1 do	Time limits on gun deliveries	1942
1 do	Corresp & plans for evacuation of depts of Krupp Works due to enemy air activity, also on the production of gears	1943
1 do	Corresp on firing apparatus for Navy	1941
1 do	Plans & corresp on construction of battleships	1933
1 do	Corresp on mounting guns & turrets on battleships	1938-39
1 do	Statistics on progress of work on cruiser "Admiral Hipper"	1938-39
1 do	Statistic report on progress of mechanical and electrical work on battleship "Gneisenau"	1938
1 do	Statistic report of the work progress on battleship "Scharnhorst"	1938
1 do	Corresp on apparatus for Port of Gotenhafen	1941
1 do	Corresp on transmissions & tech parts for submarines	1942
2 do	Corresp & blueprints about transmissions	1942-43
1 do	Corresp on mounting jobs in Brest	1942
1 do	Corresp & plans on Navy production program	1939-40
1 trunk	Blueprints & corresp dating back to 1907.	
1 folder(s)	Corresp & plans for mounting & installing firing apparatus in Dronthein	1942-43
1 do	Corresp on mounting, & plans of coastal installations in Bergen.	- - -
1 do	Corresp, plans, production procedure instructions for gun emplacements in turrets	1933
1 do	Corresp, investigations, plans & blueprints on production of medium artillery	1936-38
1 do	Corresp on tech work on armored ships	1936-38
1 do	Corresp about transmissions	1941-42

George F Grabill
GEORGE F GRABILL
Major, GSC
Asst. G-2

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LIBRARY ADDI

ARC GROUPS DOCUMENTS CENTER
Camp Dentine

[illegible] HAMBURG [illegible] USEN

[illegible]

			Periods covered
[illegible]	[illegible]	[illegible]	
"		[illegible]	
"		[illegible]	1931-44
"		Records & correspondence pertaining to Relief payments	1939-41
"		Blueprints	
"		[illegible]	1930-38
"		[illegible]	
"		[illegible]	[illegible]-44
"		[illegible]	
"		[illegible]	
"		List of Purchase Workmen	1942-43
"		Bills	1940-43
Book(s)		Inventory	1939-42
"		[illegible]	
"		Annual Report	1937-43
Handbook		From the County Office of this plant	
Folder		List of Tractors	

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Major, GSC
Asst G-2

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LIBRARY AD/I

Camp Dunlop

INVENTORY REPORT

LOT: Fuhrberg VI, GLAUCHAU

CLASSIFICATION:

AGENCY OR FROM WHOM COLLECTION IS DEEMED OF INTEREST:

DETAILED LIST

No. (of files, books, docts, etc)	SUBJECT AND AUTHOR OR ORIGINATOR	Period Covered
1 folder(s)	Death notices of Russian Pr	
2 "	" " " German soldiers	
1 "	Private corresp of a German majo by the name of L. Krause	
1 "	Requests by relatives for information about the whereabouts of German soldiers missing in action.	
1 package	Soldbücher of dead German soldiers and letters of death notice to relative.	
1 folder(s)	Completed service records (Germ.)	
1 "	Personalities of 10th Co	
1 "	Corresp. & papers on diary casualties Field Post No. 16118	
2 "	Russ. trans	
1 "	Forms re. to Germ. grave registration	
1 "	Reports on examination of different Electrical works in Germany	
1 "	Corresp. with relatives of dead German soldiers concerning the transport of the bodies to their home towns	
5 filing cases	Death Reports	
1 package	pictures & plans of soldier cemeteries	
3 folder(s)	Death reports of Russian PWs	
1 filing case	Execu tions & suicides of Germ. soldiers	

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Cont'd

Nos (of files, boxes, rolls, etc)	SUBJECT AND AUTHOR or ORIGINATOR
2 folder(s)	Office inventory of the Grade administration
1 package	Reports about German soldiers staying in action
1 folder(s)	Correspondence on home furloughs & discharges during absent of occupation
2 "	Applications & replies for home furlough
1 "	Air raid regulations for different camps
2 pamphlets	For Grade Registration officers
1 folder	Regulations pertain. to fur for soldiers for the purpose of completing their studies, urgent work, etc
1 "	PW camp regulations
1 "	Correspondence between Wehrkreis IX & German OKW casualty dept
1 "	Monthly statistic report of German soldiers & Persons

REMARKS : The above records were assorted and are separated into 4 groups

1. U.S. casualties
2. Brit " "
3. Other Allied " "
4. German " "

George F. Verrill
GEORGE F. VERRILL
Major, GSC
Asst G-2

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PIH 2789/23

XIX CORPS DOCUMENTS CENTER
Camp Dentine

XIV MICRO REPORT

DOC: Files of the General Inspectors Ueber den Fuehrernachwuchs des Heeres (G. Army Officer Procurement Office of Wehrkreis VI).
Present Location: XIX Corps Documents Center, CI Library.

CONFIDENTIAL:

AUTHOR OR ORIGINATING AGENCY: _____

DETAILED LIST

No. (or Files, Box, Shelf, Etc.)	Subject and Author or Originating _____	Periods Covered
50 Files	Containing applications, notes, references, letters of acceptance on Service Army applicants for Officer Candidate School	1942-45

George F Grayhill
GEORGE F GRAYHILL
Major, GSC
Asst. C-2.

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P/H 2789/24

VII CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

1. Title: Vermessungsamt Bremen (Bremen Survey office) Real Estate Records, Blueprints. Source: Bremen. Location at present: VII Corps Library, Documents Center.

2. CLASSIFICATION: Administration, Scientific and Research, Business and Economic.

3. KEY TO FILING SYSTEM IN RECORD OF INTEREST: Engineers.

4. DESCRIPTIVE LIST

No. (of files, books, docs, etc)	Subject and Author or Originator	Periods Covered
1 GB wooden boxes (approx 41" x 21" x 9")	real estate records, city maps, blueprints, survey records.	1920 to present.
1 large wooden box	large detailed maps of City of Bremen and environs.	- - - -

5. Remarks: Real estate records show private real estate owned in Bremen, city maps and survey data, plus detailed blueprints of central districts of city's suburbs. Material well packed and in good condition.

GEORGE F. GOODRICH
Major, GSC
Asst G-2

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OMGUS DOCUMENTS CENTER
Camp Dentine

LIBRARY AD/ XXVII -89

June 15, 1945

INVENTORY REPORT

LOT: Research files of Leuna Works, Merseburg — Present Location:
XII Corps Documents Center, Bldg. 4.
CLASSIFICATION: Scientific
Agency to whom collection is deemed of interest: CIOS, War Dept.

Inventory report on the research library of the LEUNA WERKE, Merseburg, containing works on all types of chemical research. There is a complete catalogue with cross-index filing system available with this collection. In general, subjects covered in these works are the following: Coking process, coal gas laboratory methods, Boiler water- drinking water softening, Furnaces with H. process, cement and fire brick organic researches, ammonia process, rust-proof paints, paints in general, cast iron, metallurgical chemistry.

Only those works which date from 1939 on have been inventoried in detail, as it is thought that the studies dating from before 1939 are already known throughout the scientific world.

DETAILED LIST

The Pink Series, pertaining to Ammonia Werke of the Leuna Works, Merseburg

No of volume	Author	Title	Date
640	Seyb	Discussions on chemical questions dealing with boiler feed water	Jan 1939
641	Dr. Fahr	Research about the increased exploitation of tar by use of combined hydration	Dec 38
642	Dr. v.d. Horst & Dr. Woermer	Breaking down of coal extracts according to Pott-Broche and analoge according to the Leuna system of coal hydration	Dec 38
643	Appel & Holm	Performance data on a 3 way synthetic gas compressor	Jan 39
645	v. Muhn & Scholz	Distinguishing features of a compressor motor	Feb 39
646	Holm & Oschatz	Further studies of the 10,000 kw "tap" counter-pressure turbine	Feb 39
647	Holm	Performance studies of the Simens-Elmo pump	Mar 39
648	Holm	Studies on the turbo-compressor No 5	Mar 39
654	Dr. Seyb	The present status of feed water treatment	Mar 39
656	Kaufman & Wels	Production of Diesel oil from coal-tar by extraction with selective solvents and splitting of the fixed paraffin compounds and hydrocarbone	Mar 39

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No. of volume	Author	Title	Date
657	Heinzmann	Apparatus for production of distilled water	Mar 39
658	Seyb	Research for de-oiling of oily condensate with $FeCl_3$ and NaOH	May 39
658a	Schliephake	Experiments on alkyl acids	Oct 33
659	Scholz	Exhaust gases of airplane motors	May 39
660	Dr. Türk	The alkali contents of Ammeadorf and Wallendorf coal	Mar 39
661	Dr. Türk	Figures on the analysis of coal and ash (Supplement to 660 above)	1939
662	Dr. Schieder-mandel	Research on a series of experiments with ammonium-carbonate obtained from purification of raw gas	July 39
663	Scholz	Gasoline storage in vehicles	July 39
664	Dr. Wetzel	The gas-volumetric bromination of Butadien	July 39
665	Dr. Zepf	Containers for liquid air	July 39
666	Dr. Zobel	Research on production of acet-aldehyde from illuminating gas by means of methyl-vinyl ether	June 39
670	Dr. Caulrapp	Chart for controlled alternating current using a high-frequency light source for spectral analysis	Aug 39
671	Dr. Seyb	Influence of texture on the degree of residual hardness and the capa-city of a transformer	June 39
672	Dr. Seyb	Corrosion caused by Saale water	Aug 39
673	Dr. Seyb	The development of the converter-type softener as the result of ten years plant-experience at Leuna	Aug 39
674	Dr. Wetzel	Construction and testing of a filter for ventilators	Oct 39
675	Dr. Appel	Production figures for five phase synthetic gas compressor	Oct 39
676	Dr. Leinert	Determination of fluorine in nitrogenous calcium phosphate mud	Aug 39
677	Dr. Höhn	Research on extraction of fatty acid producing paraffin from the "T.T.H." Stripper by means of propane deparaffinization	Oct 39
678	Dr. Dally	Pressure extraction of dimethyl-ether with washing media for sep-aration of impurities	Nov 39

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No. of Volume	Author	Title	Date
679	Dr. Gross	Researches on determination, origin, type and effect of poisons in the synthetic gases used in production of ammonia	Oct 39
680	Smeykal & Asinger	Paper on oil problems in production of magnesium sulfonate	Dec 39
681	Smeykal, Asinger, Spohn	Extraction of substances having capillary action by alkaline saponification	Dec 39
682	Smeykal, Asinger, Spohn	Simultaneous action of SO_2 and chlorine on liquid hydrocarbons	Dec 39
684	Kah	Research on gypsum	Dec 39
685	Steudmann	Determination of water in methylamine	Dec 39
686	Münger	Corrosion by hydrochloric acid, chlorine water and chlorine at various temperatures	Dec 39
687	Grosse Strinzhaus	Research on 1,3,5 trimethyl trimethylene triamine	Dec 39
692	Hoffmann	A new filtration apparatus for continuous filtering and washing	Mar 40
693	Seyb	Verification of oxygen determination according to Gad	Mar 40
694	Hill	Water determination in ammoniacal salt petre and nitrogenous calcium phosphate	Dec 35
695	Strzyzewski & Fröhlich	Report on research about possible uses of coal ash	Apr 40
697	Dr. Appel	Measurements of Rhine Metal-Borsig cooler of a 3 phase synthetic gas compressor	May 40
701	van Thiel	Report on the bursting of waterpipes	June 40
703	Dr. Seyb	Report on conference of feedwater chemists	June 40
704	Asinger, Schmidt, Ebenöder	Constitution and percentile distribution of products resulting from the sulfo-chlorination of propane in carbon tetrachloride	May 40
705	Leinert	Report on the softening and melting point of coal ash from Hermine-Henrietta mine	Apr 40
707	Ohle	Further information about the sulfate, calcium and sodium content of soft coal	Apr 40

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No. of volume	Author	Title	Date
709	Dr. Appel	Cooler measurements of a 6-phase unit compressor	Aug 40
711	Kaeding	Research regarding the improvement of ammonia contact	Oct 39
711a	Kaeding	Further research regarding the improvement of ammonia contact	Aug 40
714	Dr. Reuscher	Designs of a still with cooling pipes (Ammonia)	Sept 40
715	Dr. Reuscher	Research with a 500 phase ammonia still at 325 atmospheres	Sept 40
717	Weichert	Rectification of impure Tricresylphosphate	Sept 40
718	Dr. Mayrhofer	An auxiliary installation for measurements of bleaching	Oct 40
719	Köhler & Scholz	Report on previous research of Diesel gas process in Leuna and Schkopau plants	Oct 40
721	Dr. Zepf	Salt contents and water flow of the Saale	Nov 40
722	Dr. Ohle	Rapid method for determination of ammonium and uric nitrates in solution	Nov 40
723	van Thiel	Research on the condition of buildings and enclosure of a calcium salt petre spraytower	Nov 40
724	Appel & Holm	Performance of a unit compressor	Oct 40
734	Dr. Seyb	Meeting of feed water committee of I.G. Farben on 5 & 6 Nov 1940	Dec 40
735	Dr. Seyb	Corrosion of the heating elements of boilers	Jan 41
739	Dr. Ohle	Rapid quantitative method for determination of lead	Feb 41
743	Dr. Markus	Determination of sulfonate in soap	Jan 41
744	Weiß	Automatic steam pressure gauge	Jan 41
746	Ohle	Micro determination of sodium and calcium	Feb 41
747	Höhn	Extraction of lubrication oil from crude oil fractions	Apr 41
748	Dr. Kah	Sulphur extraction from gypsum	Mar 41
749	Zeng	Report on incidence of corrosion in compressors	Mar 41

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No. of volume	Author	Title	Date
750	Dr. v.d. Horst	Special type meanol	Mar 1941
751	Weis	Electropneumatic regulator with electric light compensation	Sept 40
755	Dr. Geyb	An apparatus for the measuring of dust in the air	Apr 41
756	Dr. Reinhardt	Use of electrometric titration in the analysis of soaps containing mersolate	May 41
759	Dr. Geyb	Report on the exchange of zeolithes on feed water	June 41
760	Dr. Geyb	Observations on the influence of oleg alloys in water rectification by precipitation	May 41
761	Dr. Ohle	Determination of sulphur in coal and coke	June 41
762	Reinhardt, Gerlach, Ohle	Determination of sodium sulphate and sodium sulphite in Mersolates and soap containing mersolates	June 41
764	Dr. Dünger	Corrosion through nitrates	Feb 41
765	Holm & Weissenfels	Further researches on the "$C_4H_8N_2$" Turbocompressor	Aug 41
768	Markus	Determination of copper in nitric acid solution by titration	Sept 41
769	Ribel	Report on research with a new type flow meter	July 41
772	Ackinger & Deggutn	Formation of disulfochloride by sulfochlorination of multimolecular hydrocarbons	Sept 41
773	Wentzel & Wimmer	Research on the elimination of excessive heat from ammonia stills by evacuation of heating gas	Sept 41
777	Markus	Further research on Leuna Pyridines	Oct 41
779	Wetzel	Analysis of hydrocarbon mixtures according to van Dijck	Oct 41
781	Quack	Causes for unforeseen stoppages in boilers	May 41
783	Ohle	Further information on the chemical reactions in the ashing of salt-bearing brown coal with the addition of Kaolin	Nov 41
787	Steudemann	Graphometric analysis with the aid of iron salt	Dec 41

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No. of volume	Author	Title	Date
788	Dr. Leinert	Determination of xylenols by bromination	Dec 41
789	Dr. Seyb	Report on the conference of feed water chemists of Nov 1941 in Bitterfeld	Jan 42
792	Kühn	Examination of hydrocarbon-bearing gases	Dec 41
793	Pfaff	Report on the damage in the high-pressure boilerline	Jan 42
794	Karl & Wetzel	Production data on a 5 phase double compressor	Jan 42
796	Dr. Seyb	Report on research on the de-oiling of condensate by use of alluminum sulphate and trisodium phosphate	Jan 42
798	Eckhardt	Economy in use of ethyl alcohol in determination of neutral oil in mersol, mesapon and washing powders	Feb 42
799	Ohle	Extraction of magnesium oxide and calcium nitrate from Dolomite	Feb 42
800	Bünger	Corrosion of iron and N-material with nitric acid	June 41
801	Eckhardt	Determination of neutralization heat of mersol H	Feb 42
802	Wirth	Research and plant experience on condensors	Jan 42
805	Leinert	Phenol determination in waste water	Mar 42
806	Ohle	Extraction of magnesium oxide and calcium nitrate from Dolomite II	Mar 42
807	Krämer	Determination and separation of coal gas, mercaptans and hydrogen sulphide in gases	Feb 42
808	Wyszomirski & van Thiel	Research on wear and tear of heating tubes in the preheating vat of the Winkler generator	Mar 42
809	Asinger & Eckoldt	Sulfochlorination of cycloparaffinic hydrocarbons	Mar 42
810	Schols	Research with Diesel oil Benzine Mixture	Apr 42
819	Bankowski	Separation of alkalis from coal	June 42
822	van Thiel	Examination of acid-resisting coating of chimneys of the A.Riebeck machine works, Halle	July 42

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IOI: Research files of Leuna Werke, Merseburg (cont.)

No of volume	Author	Title	Date
823	Ohle	Determination of humus substance in soils	July 42
824	Heidinger	Esters of adipinic acid as softeners	July 42
825	Weis	Construction of automic gage of Scholven Butane works	July 42
826	Fröhlich	Report on removal of distillation residues of phenol oil distillation in Leuna	Aug 42
828	Karl & Holm	Performance data on five phase double compressor	July 42
830	Scheidermandel	Report on tangential type containers	Aug 42
838	Meinecke	Report on studies on concentration of ammonium nitrate lye in duplex evaporators	Sept 42
840	Fink	Use of alkacid lye in nitrogen purification	Oct 42
841	Fink	Use of foam preventives in synthetic gas purification	Nov 42
845	Ohle	Inhibition of melting of basic ash and of incandescent ash of salt-bearing coal	Dec 42
846	Ohle	Further information about chemical reactions and melting inhibition in slaking of coal with sand and kaolin	Dec 42
849	Ohle	Inhibition of melting and clinkering in the degassing of coal	Jan 43
859	Ohle	Further information about chemical reactions and inhibition of melting in the ashing of soft coal with alkaline fluxes	Mar 43
861	Striegler	Alkali treatment of methallyl chloride and its derivatives	Mar 43
862	Seyb	Water softening with barium carbonate	Feb 43
863	Bünger	Examination of corrosions in high pressure boilers	Mar 43
872	Weissenfels	Gas compressors	May 43
874	Seyb	Exchange of researches on feed water questions	Apr 43
875	Ohle	Influence of inhibition of melting of coal ash through addition of granular slack and hydration residues	June 43

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No of volume	Author	Title	Date
876	Brude	Handling of patent matters	Apr 43
879	Ohle	Further information on determination of fluorine	July 43
880	Ohle	Employment of melting chamber experience in the firing of salt-bearing soft coal	Aug 43
881	Ohle	Ashing of salt-bearing soft coal with mixed flux from kaolin and calcium carbonate	Aug 43
882	Leinert	Phenol oil analytical method of phenol combination	Sept 43
884	Lotz	Extraction of ammonium nitrate from sulfur free ammonia water from coke plants	Oct 43
888	Ebeneder	Origin of the difficulty in sulfochlorination of back oils	Oct 43
898	Seyb	Checking of muds from various softening processes	Oct 43
899	Pobloth	Use of organic lead-iron carbonyls as anti knock media	Dec 43
900	Ebeneder	Improvement of moistening of filter sand by mersolate in combination with salts	Jan 44
901	Ebeneder	Influence of salts on the surface activity of mersolates	Jan 44
903	Grünert	Theoretical considerations about relative mass conditions of mono-, di-, and polysubstitution products in the chlorination, sulfochlorination and nitration of multimolecular paraffin hydrocarbons	Jan 44
904	Heidinger	Esters of ketopimelinic acid with Leuna alcohol	Feb 44
915	Ohle	Further information on inhibition of melting and chemical reactions in the firing of salt-bearing coals	May 44
918	Günther	Research on the Leuna double boiling apparatus	Dec 42
921	Striegler	Zephirole based on sulfochloride and oxo-alcohol	May 44
927	Ohle	Further information on determination of organic peroxides and organic peracids with oxygen superoxide	Sept 44
928	Hartmann	Speed of burning of coke	Sept 44

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LOT: Research files of Leuna Works, Merseburg (cont'd)

The Orange series, consisting of work originating in various plants of the I.G. Farben system other than the Ammonia works at Merseburg, and distributed to all plants for study and application.

No of volume	Author	Title	Date
177	Sigwart	On the question of pressure loss in bell receivers	Dec 38
178	Kaiserling	Influence of intermediate superheating and gas preheating on the design of large condensation steam works	Jan 39
180	Schmid	Report on steam converter for Wolfen film works	Dec 38
181	Sigwart	Test of the exchange effect with sodium sulfite procedure	Feb 38
184	Kimpoll	Research on liquid distribution in filling columns	Feb 39
185	Koelig	Report of meeting of (German Association of Electrotechnicians) VDE Commission for wires and cables	Jan 39
184	Roever	A simple compressed air alarm for pressureless liquid containers	Feb 39
185	Sigwart	Increase of degree of filling of mixing drums through application of vacuum	Feb 39
186	Roever	A new remote control capacity meter for liquids under pressure, especially for high explosive liquids	Feb 39
187	Bachmann	Report on evaluation of granular analyses	Mar 39
188	Wilke	Explanation of poor separation of SO_2 and SO_3 from roasting gases, and research on improvement of washing effect in gas purification	Dec 38
189	Wilke	Production of concentrated tower acids (HCl) from raw gases	Dec 38
190	Koulin	Carbon disulfide from sulfur and carbon dioxide bearing gases	Sept 38
191	Staib	Sulfuric acid regeneration	Oct 37
192	Engel	Control of purity of oxygen and nitrogen from liquid air	Mar 39
193	Metz	The three fundamental problems in transmission of material in rectification, extraction, adsorption and in reaction furnaces	Dec 38
194	Roetger	Report on a trip in the phosphate region of Caibiny (North Russia)	Aug 34
195	Voigt	Research on extraction of SO_2 from waste gases	Sept 38
196	Wassenegger	Artificial resins and their synthesis	Dec 37

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No of volume	Author	Title	Date
197	Ruesch	Excess wood from production of barrel staves	June 39
199	Roever	A new simple mass meter for electrolytes	July 39

Blue series, consisting of work done in the Laboratory of the Ammonia Works at Oppau

No of volume	Author	Title	Date
1989	Kotzschmar	Extraction of paraffin from CO and H_2	Oct 39
1990	Grassner	Determination of sulfur in tars, oils, gasolines, coal gases and the like, using nephelometric method	Oct 39
1993	Singer	Flash behaviour of certain lubricants	Nov 39
1994	Ackermann	Instructions regarding use of apparatus for determination of water in air for a silica gel works	July 38
1995	Koehler	Improvement of use of gasoline in the Diesel motor	Oct 39
1996	Nienburg	On purification of "TTH" paraffin for oxidation	Nov 39
1997	Koehler	Experiments with Leuna gasoline as Diesel fuel	Sept 39
1998	Hoffler	On the slacking behaviour of coke in water gas generator	May 39
2000	Witsenhowski	Experiments on the exhaust of the Hesselmann motor by means of the I.G. Piezo-quartz-cathode ray indicator	Feb 39
2001	von Schuch	Simplification of the adjustment of spark retardation in the I.G.-Diesel test motor for the measurement of cetane number	Nov 39
2004	Koehler	Sparking qualities of gasolines	Dec 39
2005	Lohmeyer	Report on research on drying of air with densepored silica gel	Jan 39
2007	Schenker	Research on flying ashes from the Oppau steam plant	Sept 39
2008	Koehler	Conversion of a diesel vehicle to liquid gas	Dec 39
2012	Koehler	Conversion of a Henschel Diesel vehicle wo gasoline	Jan 40
2013	Bartelt	Determination of metallic traces using spectral analysis	Apr 39
2014	Steinheil	Attempts to purify "fresh gas" of an ammonia works	Dec 39
2015	Linckh	The oxygen gasification of hard coal and "semi" coke in the Winkler generators	Dec 39

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LOT: Research files of ...una Works, Merseburg (c...t'd)

No of volume	Author	Title	Date
2016	Kaelberer	Absorption of sulfur dioxide from roasting gases with zinc oxide and water	July 39
2017	Meyssner & Eichler	Extraction of propargyl alcohol and its further use in butindiol synthesis	June 39
2021	Machek	Quantitative determination of traces of arsine during simultaneous seperation from antimony	Oct 39
2026	Weise & Haase	Laboratory distillation apparatus	Aug 39
2029	Friedericci	Experiments on the conversion of the organic sulfur in H_2S by incomplete conversion of CO in the gas under pressure	Mar 40
2031	Kaufmann & Graefinger	Behaviour of glutaric acid	Apr 39
2033	Luetzendorf	Synthetic absorption for oil raffination	June 45
2033	Pfundt	Yearly report of pressure water purification in Oppau for the year 1939 (2 papers numbered "2033")	------
2046	Schuldrecht	Index of prussic acid traces in plant waste water	July 39
2048	Clare	Examination of various-shaped high pressure lines	June 39
2050	Mueller	Rapid method for determination of the relative reaction capability (burning time) of fuel	Mar 40
2052	Singer	Notes on meeting of Technical Testing Board of Oppau on 29 June 1940	June 40
2053	Heinzel	Correspondence between the Pressure water purification (department) of Oppau and the Technical Dept. of Ludwigshafen about "Washing of pressure water with sea water"	Feb 38
2055	Bienburg	Comparison of physical data on fractionally distilled natural and synthetic paraffins with that of pure normal paraffins	July 40
2056	Wesly	A new evaporation apparatus with self operating flow of liquid	Aug 40
2057	Wesly	Determination of small amounts of calcium and magnesia (in water) with the aid of the optical hardness meter	Aug 40
2058	Pier	Polycyclic aromatics from hydration products	------
2059	Boente	About coronene (hexabenzobenzol)	------
2060	Schaaf	Propargyl alcohol and butindiol as corrosion inhibitor	July 39
2064	Metzger	Retardation of explosive points of ethylene and ethyleneoxide-oxygen mixtures by admixture of nitrogen, carbon dioxide and ethylene respectively	Mar 40

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No of volume	Author	Title	Date
2066	Pirzer	Performance experiments on an Ehrhardt & Sehmer compressor in the Scholven hydration works	July 40
2067	Mittasch	Is nitrogen an inert element ?	Sept-Dec 1920
2072	Hopff, Ufer, Wiest, Wickmann	Previous work of the "Z.K." laboratory in the field of polyamides	———
2074	Zschiesche	Yearly report of Oppau ammonia works	1939
2077a	Heinze	Results of wash- and foam-testing of paraffin soaps	Feb 37
2083	Craemer	Propanemonosulfoacid-cyclohexylamide	Dec 40
2084	Stadler	Testing of protective plates against fragmentation	Dec 40
2085	Stadler	Explosive experiments with concrete plates for tank(i.e. "container") armor	Dec 40
2089	Heller	Rapid method for determination of reaction capability (burning time) of fuel, Part II	Nov 40
2106	Pfundt	Yearly report on Pressure water purification, Oppau	1940
2112	Pirzer Glowinski	Performance experiments on an Ehrhardt & Sehmer compressor	Feb 41
2118	Rieder	Investigations of electronic divergence on the adsorption of synthetic wash media by thin celluloid foils	June 40
2125	Wuerstlin	Exterior and interior softening of polyvinylchloride and its effect on electrical values	Oct 40
2126	Karckow	Investigation of "ampho soap 18"	May 41
2128	Futterer, Hein & Reinhardt	Measurements of the "Maulwurfs" pump	Oct 41
2135	Rieder	On the experimental information about absorbed soap layers	Mar 39
2142	Kling	Comparative measurements of heat exchange on high pressure pipes with welded and supported ribs	July 42
2144	Kling	Investigation on ribbed pipes	July 41
2154	Ackermann	Determination of traces of organic sulfur in oxygen-bearing gas mixtures by introduction into hydrogen sulphide and recording the hydrogen sulphide by means of performance measurements of bromine water	Dec 41
2163	Germann	About increasing of copper concentration of copper lye and diminution of copper losses in hydrogen purification at Oppau	Feb 42

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No of volume	Author	Title	Date
2181	Heinzel	The cold gas furnace	May 42
2182	Wesly	Attempts at colorimetric oil determination	May 42
2184	Wesly	Analysis of commercial quicklime	May 42
2185	Wesly	Limits for addition of ammonia to steam	May 42
2186	Wesly	Drying of calcium carbonate mud	May 42
2188	Heinze	Mechanics of the oxidation of cyclic combinations with nitric acid to adipinic and succinic acids	May 42
2191	Wesly	Behaviour of galvanized iron toward ammoniacal condensate	July 42
2200	Hauk	Structural improvements in building of columns	June 42
2201	Hegelmann	Further information regarding the concentration changes resulting from partial liquefaction of hydrogen sulfide mixtures with various components	Mar 41
2204	Singer	Procedure for octane number determination according to the Oppau method	Jan 42
2206	Claren	Adaptability of various cellulose preparations as animal feed	Sept 42
2211	Feiler	Production of Butadiene from gas mixtures by the cuprochloride additive hook-up	Nov 42
2216	Pirzer & Linnartz	Performance trials on a 4000 kw thickener, "Heydebreck" type	Nov 42
2221	Koelbl	Investigation of tricresylphosphate	Aug 40
2223	Pfuetzner	Experiments on new type fertilizers	Feb 43
2224	Zbinden	Factory experience on small columns of glass	Feb 43
2225	Kling	Heat experiments on a high pressure installation for catalytic polymerisation of olefine bearing liquids	Mar 43
2230	Frick	Enamelling of cast steel	June 42
2232	Schenker	Heat conservation measures with waste ashes	May 43
2234	Kling	Investigations on the critical condition of a polycomponent mixture	July 43
2235	Lueder	Experiences on distillation technique and further experiments for the concentration of sulfuric acid	June 43
2236	Steinheil	Foam disturbances in hydrogen purification	July 43
2246	Stroebele	Soil tests in vegetation experiments	Jan 44

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LOT: Research files of Leuna Works, Merseburg (cont'd)

No of volume	Author	Title	Date
2251	Stroebele & Pirzer	Experiments on oil-bearing fertilizers	Feb 44
2254	Pirzer	Influence of hydrogen ion concentration on the growth of vegetables	Feb 44
2255	Pirzer	Influence of hydrogen ion concentration on the activity of manganese in an organic soil	Feb 44
2258	Roemer	Enriching of soil with organic material by crop rotation	Apr 44
2264	Heinzel	Report of Oppau ammonia works for...	1934
2268	Haeuber-Racky	Separation of carbon oxysulfide (COS) from gases	Nov 43
2270	Meier	Conversion of percentage values in distillation technique, and nomogram for dual substance mixtures	Sept 43

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5 Ring Binders	Translations of articles from scientific journals	1934-1942

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LIBRARY AD/I XXIII-89

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

June 27, 1945

INVENTORY REPORT

LOC: Library and personal papers of Friedrich Krueger, SS Obergruppenführer and General of Police, Higher SS and Police Chief in the Generalgouvernement. Present Location: XIX Corps Documents Center, Bldg. No. 4.

CLASSIFICATION: Political, Para-military

AGENCY TO WHOM COLLECTION IS DEEMED OF INTEREST: CIC, JA, WAR CRIMES

DETAILED LIST

No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
9 bundles	Personal letters	1912-44
1 album	Records: Annexation of Austria	1938
1 album	Records: Annexation of Sudetenland	1938
6 diaries	(incomplete)	1914-32
1 diary		1936-38
2 diaries	SA Group East	July 1931-June 1934
3 SS calenders	Chronological notes	1936,37,40
1 diary	Of SS Oberfuehrer Hintze in the Generalgouvernement	Nov. 1939-Jan. 1940
2 folders	Combat reports of the Inf Regt. v. Lützow	1914-18
9 calenders	diary notes (incomplete)	1914-42
27 photoalbums	Photos of family, World War I, political and social events	
1 wooden box	Picture series of 5th SS Mtn Corps	1943-44
4 bundles	Maps: World War I, present day military and commercial maps of European countries	
1 folder	Reichstag circulars	1933-43
	Correspondence on guaraianship of Rosemarie v. Ehrenkrook	1939-43
	Correspondence on debts of Mr. Karl Naffin	1941-43
	Correspondence on inheritance re Augustini	1941
	Correspondence and documents on attempted assassination of Krueger	20 Apr. 1943
1 folder	"Political notes": contemporary essays on the political and military situation	Jan-Oct 1943

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LOT: Library and personal papers of Friederich Krueger, (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
	Correspondence and documents of Brig. Gen. Lancelle	1940-42
	Correspondence and documents re Capt. Störs	1940-42
	Correspondence re General Haenicke	1943
3 folders	Bills to the SS Führerheim, Krakau	1940-43
3 folders	Personal papers and correspondence, containing among others a translated diary of a Russian partisan and correspondence concerning the confiscation of Jewish property in Poland	1943
1 folder	Concerning High Treason charge against Krüger	1932
1 folder	Correspondence of Krüger with Party and Army Ministry during the period of his leadership as Chief of the SA Training Program	1933-34
1 folder	Private financial records	1930
1 folder	Invitations of high Nazi leaders	
1 folder	Book (in manuscript form) of World War I by Lt. Col. Huettmann	1926
1 report	Detailed account and illustrations of Raid on Warsaw Ghetto (Pogroms)	20 Apr 1943 -16 May 1943
1 envelope	Signed memorandum by former Governor Dr. Lasch about corruptions within Generalgouvernement	1942
1 folder	Report of Crimean journey	Oct 1942
1 envelope	Trial of SS Standartenführer Fegelein	May 1941
1 folder	Conditions in the Generalgouvernement with regard to political leadership, food procurement, economics, security, etc.	1942
1 folder	Correspondence re Riding Academy	1935-42
1 folder	Confidential report about German Delegation at Geneva Disarmament Conference	May 1933
1 folder	Official correspondence with SS HQ: orders by Himmler, etc.	1939-43
1 folder	General SS and private correspondence	1935
3 folders	Reports of the Supervisory Council of Berliner Müllabfuhr A.G.	1928-35
1 folder	Loyalty telegrams in connection with	30 June 1934
2 folders	Financial correspondence re guardianship v. Ehrenkrook	1935-38
1 folder	Re National-Political Reformatory	1934-35

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LOT: Library and personal papers of Friedrich Krüger (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
1 folder	re Mühmann	1935
1 folder	Confidential correspondence and reports with SA HQ	
1 folder	Correspondence with Employment Officers	1935
1 folder	Correspondence with Party	1930-40
1 envelope	Report of duel between SS Hauptsturmführer Strunck and Obergebietsführer Krutschinna	Oct 1937
1 folder	SS Correspondence	1936-39
1 folder	Minutes of the Reichstag	1932-39
1 folder	Secret personal correspondence	1939-42
2 folders	Pamphlets for artillery schooling	1942-43
1 folder	Personal correspondence	1936-38
1 folder	Household bills	1934
1 folder	Financial reports to SA HQ	1931-33
1 folder	Bank statements	1931-35
1 folder	Correspondence between SA Training HQ and War Ministry	1935-36
2 folders	Training and military information manual edited by SS Artillery School II	1943
1 book	Proposed cost-accounting of SA Training Program	1934
1 folder	Court order in Krüger's claim suit	1924
1 folder	Business correspondence (Knoche, Desemer, Wilke)	1924-36
1 folder	Mortgage re Frau Ella Leonhards	1930
1 envelope	Financial reports in response to Obersten Rechnungshof	1936
6 folders	Krüger's genealogy; correspondence; papers	1942
1 folder	Correspondence on the dismissal of SS leaders	1935
1 folder	Matters re Prussian State Ministry	1933-38
1 folder	Secret report and correspondence on conditions in the Generalgouvernement	1943
1 folder	Proposed task for the chief of the SA Training	1934
1 folder	Memoranda by Krüger on the training program	1935
1 folder	Newspaper clippings on Müllprozess	1933

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LOT: Library and personal papers of Friederich Krüger (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
1 folder	Confidential charts and statistics of the SA Training Program	1934
1 book	Listing monetary compensations for Krüger	1940-43
1 folder	Intra-party correspondence	1931-33
1 folder	Correspondence and order of court re Hoecken	1934-36
1 folder	Personal correspondence	1936
1 album	SS statistical charts	1936
5 books	SS leader lists (Officers) arranged according to rank	1936-38 1940 & 1942
2 booklets	Proposed SS budget	1935-36
1 folder	Report on illegal SA Brigade No. 6 (Austria)	1933-38
3 pamphlets	Lists of Reichstag members	1933-36
1 folder	Proposed budgets for SA Training Program	1933-34
25 folders	Financial records and correspondence, budget plans, mortgage and business records, bank accounts etc., personal and party	1930-39
1 telephone book	Of Army exchanges in Lodz	Oct 1939
1 telephone book	Of German Army offices in Poland	Dec 1939
1 telephone book	Of German Police Officials and offices in Krakau	Jan 1941
1 folder	Reports and memoranda re Hoepfner	1935
1 folder	Correspondence with city council in Berlin	1934-35
1 folder	Correspondence with 6th Army Command and Freecorps Luetzow	1920
1 folder	Casualty list 1917 (incomplete)	1917
13 boxes	Books and publications of all types mostly, political, party and propagandistic material.	

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LIBRARY AD/I XXVII-89

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XII CORPS DOCUMENTS CENTER
Camp Dentine

27 June 1945

INVENTORY REPORT

LOT: Pittler Machine Tool Factory--LEIPZIG. Present location: XII Corps Documents Center, Bldg. No. 1

CLASSIFICATION: Technical

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: CIOS

DETAILED LIST

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
19 boxes and partially encased packages	Blue prints and drawings for making, setting up, and maintaining machine tools such as lathes, automatic screw machines, and drill tables, for the manufacture of various small parts: igniters; gaskets for air pressure hoses; bolts, nuts, screws; revolver and pistol parts; valve gaskets; oil pumps; range finder parts; ball and roller bearings; shell-loading machines; 20 mm AAAT recoil sled; brake drums; firing pin assembly for 150 mm How; boring and thread-cutting tools; piston rods; gearlock parts; differential housings; propeller hubs; flywheels; etc.	1937-1944
7 large flat cases	Blue prints and drawings, some as large as 4' x 3', same as above.	
3 wooden file cabinets	58 ring folders and 31 oversize ring folders, containing blue prints and drawings, similar to above. Also 25 miscellaneous books, notebooks, pamphlets, and folders, containing a short history of the Pittler factory, catalogues of machine tool parts, and miscellaneous drawings.	
4 steel cabinets	Drawers partially filled with blue prints and drawings.	
1 large wooden box	Miscellaneous folders and pamphlets, containing blue prints and drawings, lists of machine tool parts, advertising material of the Pittler firm and other firms.	

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LOT: Pittler Machine Tool Factory (cont'd)

REMARKS: Orders were apparently filled for numerous factories and agencies throughout Germany: Auto-Union; Schneider; BMW; Army High Command; Saurer Werke; Adler Werke; Bopp and Reuther; C. F. Hoffmann; Steyr-Daimler-Puch; Henschel Aviation Motors; Bachmann, Blumenthal and Co; Th. Bergmann and Co; Deutsche Waffen und Munitions Fabrik; I. G. Farben; Daimler-Benz; Reich Armaments Office; etc.

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XIX CORPS DOCUMENTS CENTER
CAMP DENTINE

27 June 1945

INVENTORY REPORT

LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

CLASSIFICATION: _____

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

Film	No. File	Subject and Author or Originator	Date
1	1 - 35/96	Thesis by American, German, French and Italian research laboratories on rapid determination of oxygen & nitrogen in iron & steel	1931-39
2		Experiment on the reaction of Aluminium-nitride in determining argillaceous earth (Tonerde) & metallic aluminum.	1930
		Experiments on "Primär Gitter Isolierung	1930
		Residue experiments of iron flux	1930
		Determination of errors in the chlorination of steels by analysing the remainging residues	1930
3		DISSERTATION by Dr. FRICKE: Contribution to the determination of iron & manganese oxidul under special consideration of the mercuric chlorid process	
3	57-86-111/70	Microscopic examinations of steel	
4	172-231	Laboratory instruments & machinery	
4	111/71-118, 47, 103	Industrial air raid defense pertaining to war gases	1943
5	153-169/164	Isolation of carbides	
5	235/347	Hydrogen stability of chrome samples	
		Contribution to the photometric determination of cobalt in steels	
		Compilation of the results of vanadium slag	

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
6	349	Metallurgical research	
6	169/165-205/46	Research on carbide in steel	
7	205/47 - 228/103	Observations of chemotherapeutic reactions in the fluorescence microscope. Research with ultraviolete rays.	
1	1-56	Melting processes	
2	56-128	Patents of different nations of diffusion films on objects of iron, steel or iron containing alloys	
3	228-239	Research on technical & scientific precision measurement instruments	
9		Chloraminating experiments in 1939/40. Vanadium in iron & steel.	
10	-	The essence of chemical union according to the Grimm school.	
1	200-213	Tests on iron flux	1939
2	213-21929	Reports on "Löfquisit" process	1938
5	21929 - 2197	Experiments with Vanadium	
4	2198 - 41140	Experiments in various types of smelters	
5&6		De-copperization of copper bearing raw iron. Experiments with the Izett - L - Gute process.	1940-41
7	41340 - 41900	Experiments on equilibrium of oxygen and hydrogen in steel.	1940
8	41401 - 41248	Experiments on the manufacture of high grade alloy structural steel.	
9	71260 - 41425	Experiments on the origin of flocs and intercrystallene flaws.	1934-42
10	41435 - 48013	Claims & investigations of faulty material in wheels.	
11	48013 - 41740	Reports on experiments of new type of rollings.	1940-42
12	41750 - 48120	Claims & investigations of faulty material in boilers.	1939-40
13		Experiments in aging & coerations tests	1937-42

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
14	41917-41921	Experiments with Izett material in the manufacture of wires and rivets.	1937-42
15	41921-41922	Reports on conferences with visiting research people.	1934-37
16	41922-41940	Tests of cutting and bending of sheet metal.	1934
17	41945	Tests on flaws from caustics.	
18	41945-03461	X-ray tests on steel & iron & cost estimates of such installations.	
19-20	7006-44005	Tests without destruction of sample.	1939-43
21		Correspondence & recommendation of Krupp steels for specific jobs.	
22		Correspondence with customers on nickel alloys with small coefficients of expansion. Tests on insulating materials.	1940-42
1	200-212	Experiments with electrolytic sheet iron.	1909-38
2	213-2194	Experiments & tests of different methods of obtaining high percentage manganese steel.	1916
3	2194-21960	Revies of Vanadium production.	
4	21960-313	Experiments in tempered ingots.	1920-26
5	313-41130	Behavior of the electro-magnetic effective materials using cast conduits as heat conductors.	1906
6	41140-41331	De-sulfurization of steel; tests & observation of oxygen in steel.	1913
7	41331-71190	Production of steel substances having a high resistance to breakage under stress.	
8	71190-41400	Carbon - oxygen products obtained by addition of solid carbon to liquid iron. Also regarding gas determination in iron & steel.	1914-27
9	41400-41431	Decarbonization of V2A steel vacuum. Charts about gases in steel.	1940
10	41431-71290	Process for treatment & purification of steel. U. S. patent.	1924
11	71290-41435	Investigations on flaws in brake cylinder units. Investigations on flaws in various types of steel.	1911-1918
12	41435	Tests on hydrogen in cast iron.	

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LOT: Alfred Krupp, A. G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
13	41535-51515	Tests on rotary proured 136 cm ingot.	
14	41513-41550	Pouring tests with wax. Experiments & pictures on castings of various sizes.	1923
15	41550-41740	Rolling experiments under various temperatures of covered casts & sheets.	
16		Pictures & charts on castings & etchings.	
17	48002	Reports on microstructure of steel tires for Rd and trams. Dependence of cremation value of sample thickness & incandescence on compensatory temperatures.	1919
18	41905	Cremation experiments. Influence of initial stages of water & oil quenching on the solidity of Steel.	
11		Determination of Chrome, tungsten, nickel in alloy steels.	
12		Researchwork on determination of arsenic as well as alkalies in general in steel.	
13		Experiments on extraction of gas from steel under various temperatures.	
14		Personnel records.	
15		Reorganisation of the main chemical laboratory. Determination of argillaceous earth (Tonerde) besides aluminum in steel.	
16		Determination of metallic iron by means of various chemical processes.	
19	41911	Experiments in cremation, diagrams , charts, photos, etc.	
20	41921-41921	Experiments with D, T, & "Izett" steel.	
21	41921-41945	Etching tests.	1922
22	48006-0343	Tools & equipment for the examination & testing of steel, iron & sheet metal.	
23	0344-0347	Experiments with nonmagnetic cast iron.	1926-37
24	44002-44008	Experiments with optical Pyrometer. Experiments on heat expansion.	1922
25	44008-44113	"Bimetal" by W. Von Rahn, HANAU. Tests of faulty material in steelwheels for trains.	1927
26	48010-48026	Tests of temper of steel for locomotive wheels Comparison of wearability of different steels.	

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IOT: Alfred Krupp, A.G., ESSEN Research Laboratories

Film	No. File	Subject and Author or Originator	Date
27	48026-4421	Experiments with different steels as to the induction resistance to alternating currents.	1908-26
28	4421-44315	Tests of different steel wheels for trains & street cars.	
29	44317-44330	Experiments with different sheet metals. SILICA sheet metal.	1901-25
30	44330-48025	Tests on RR wheels. Experiments & correspondence in regard to Silica sheet metal for the electric industry.	1915-26
31	48025-48061	Experiments & tests of RR wheels.	
32	48070-48116	Tests & experiments with "Konus" sheet metal.	1916
33	48116-44362	Examination of faulty material.	
34	44362-44372	Magnetic testing of permanent magnet steel.	1923-25
35	34372-44373	" " " " " "	
36	44373-44376	Tests & experiments with magnetic steel.	1923-30
37	44378-44384		
38	44387-4460	Experiments & tests with incandescent furnaces. Tests & experiments with magnetic steel.	1906-10 1923-30
39	4460-44750	X-ray tests on steel & cast iron.	
40	44750-9232	X-ray test on steel & cast iron	1933-35
41	4232-3211	Experiments with "HYPERM" sheet metal.	1923-27
42	3211-3241	Experiments & tests with steel & cast iron.	
43	3241-42061	Experiments & tests with steel & cast iron.	
44	42061-42188	Experiments with Chrom - Nickel steel.	
45	42188-42435	Dissertation about nitrogen in steel and	
46		"Iron and Nitrogen"	
47	42440-42531	Separation of graphite from different types	
48		of steel.	
49	42531-42671	Experiments with various steel tempering	
50		materials.	
51	42671-35115	Hydrogen - high pressure experiments.	
52			
53	3512-45020	Potential measurements on stainless steel.	
54	035-45040	Welding experiments with differently treated sheet metals.	
55	45040-45102	Crystallization tests.	

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
5[illegible]	45040-45102	Experiments in rust-resistant qualities of different steels.	
5[illegible]	45102-45430	Experiments with steel in different sulphuric acid solutions.	
5[illegible]	45102-45430	Experiments of rust resistant quality of different steels.	
5[illegible] 6[illegible]	45441-45705	Flash point at 1100° of various resistance materials.	
6[illegible]	45726-45841	Experiments with "Sherorized" steel & in chrome plating.	1923/25
6[illegible]	45842-45851	Experiments with cast steel, also U.S. Pat. No. 20713 Re: impregnation of metals with silicon.	1933
6[illegible]	45851-38111	Tests of different cast irons.	1920
6[illegible]	38111-38129	Tensile strength of different cast irons.	
6[illegible]	3812-43118	Different tests on cast iron.	
6[illegible]	43118-43152	Steels of high density under high temperatures.	
6[illegible]	43116-43320	Influence of the thickness of the sample on the crystallization of cast iron.	
6[illegible]	43320-43439	Prolonged bending tests.	
6[illegible]	43439-43617	Riveting tests with alloys & free metals. Test on interior tensions.	
2[illegible]	44111-44113	Tests, experiments & correspondence on Bimetals	
24	44113-4414	Reports on various special steels for various industries such as watch making, music and plane.	
25		Correspondence, tests & reports on resistance material.	1925-31
26	4421-44305	Permeability during magnetisation process.	
27	44311-44331	Induction tests.	
28	44301-44352	Magnetic & Permeability measurements.	1938-40
29	44353-44384	Experiments on permeability of iron-silica alloy. Experiments with "Hypern" 1 - 7.	1941-43
30	44345-44352	Experiments with "Hypern" 366-301 etc.	1940-43
31	44355-44370	Experiments & tests with magnetic steel & vanadium alloys.	

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
32	44370-44373	Experiments & tests on "Zählermagnete".	1936-43
33	44371-44375	Experiments, tests & correspondence with "KOERZIT" 500.	
34	44375-44378	Experiments, tests & correspondence on different magnetic steels.	
35		Experiments with "Thermopern" F 10.	
36	44381-44390	Experiments with non-magnetic nickel steel.	1909-25
37		Temperature control layouts of various firms & tests of specific weight of different steels.	1925-34
38		X-ray determination of homogeneity of temper & nitration tension & experiment with X-ray return waves.	1939-40
39	4477-7483	Correspondence on sub-committee for X-ray testing, also commercial testing without destruction of sample.	
40	4783-94320	Influence of ultra-band on magnetic characteristics of permanent magnets. Other experiments on magnetic disturbances.	1930-40
41	94330-326	Tests, experiments, correspondence on various cast steels.	1930-39
42	327-42145	Tests & experiments on the influence of arsenic on characteristic of steel.	1930-40
43	42146-42292	Tests & experiments with different elements on "austenilischen" steels. Reports on iron-chrome-nitrogen alloys.	1939-40
44	42295-42462	Experiments pertaining to prolonged glow tests & structural tests of different steels.	1930-40
45 46		Tests on temper of different steels.	
47		Correspondence & investigation reports on faulty material.	
48		Correspondence & reports on foreign inventions on nitrations.	1926
49		The influence of various chemicals on the hydrogen stability of steel.	
50		Report on checkings of nitration installations with various steel companies.	
51		Tests of samples of "Thermisilid".	

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
52		Reports on research work pertaining to high pressure hydrogen containers.	
53		Crystallization tests with different types of steel.	
54		Examinations of crystallization samples.	
55		Corrosion tests on cuprous & non-cuprous steels.	
56		Reports on hydrochloric & resisting alloys.	1932
57		Hydrochloric & resisting steels.	
58		Attack on steel & cast iron by important mineral acids.	
59 60		Experiments with V.A. material in the cellulose industry.	
61		Flash point of steels	
62		Walter Voss, Sethaatte, exploitation of iron turnings - corrosive caustics.	
63	43817-43843	Experiments & research work in chrome plating.	1943
64	43844-75188	Foreign & domestic patent registrations. Chrome plating processes.	1943 1942-43
65		Correspondence & reports of meetings of the society of German iron & steel manufacturers.	
66		Reports on high pressure container & autoclave tests.	
67		Reports on tests of density & durability of different steel ingots.	
68	7681-8800, 43000-53154- 90-5315-4- 90	Heat strength tensile strength tests on various types of steel.	1930-37
69	43145/91 - 43340/50	Experiments on "Kaltschlag" samples & "Schnellschlagversuche" and tests of different tempers.	1930-38
70	43340/51 - 43421	Experiments on stability under repeated bending & tensile strength tolerances.	1931-41
71	43421-43614	Experiments in nitrated steels.	1935-40
72	43615-7381	Reports on pull tests.	1935
73	7381-8752	Investigation of customer claims about faulty material.	1927-38
74	8752-47753	Investigation on customer claims about faulty material.	1938

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LOT: Alfred Krupp, A..., Research Laboratories, SSEN

Film	No. File	Subject and Author or Originator	Date
75	47758-47815	Investigations of customer claims about faulty material & correspondence with inventors in regard to new inventions.	
76	47815-47861	Claims on faults in turbine blades of "Tinidur"	1926-33
77	47861-47988	Investigation of faulty material for the spinning industry.	1927-33
78	47988-48210	Experiments on cold rolled steel sheets for the air plane industry. Tests, reports on faulty material sent in by customers.	1941-42
70	43521-7386	Cremation tests.	
71	7386-37413	Investigations of faulty RR and streetcar equipment (wheels, cog wheels, etc).	
72	37413-47720	Investigation of faulty material in turbines, rotors, etc.	
73	47420-47746	Tests in crank shafts of FKM 54 material for Maybach motors.	
74	47746-47774	Claims & investigation reports on insufficient tempering of steel & iron.	1911-14
75	47777-47802	Claims & investigation reports on broken piston rods	1914-26
76	47758-47825	Claims & investigation reports on ball bearing steel.	
77	47829-47878	Investigation reports on claims on valves & turbines.	
78	47878-47961	Claims & investigation reports on faulty steel.	
79	47961-48133	Claims & investigation reports on faulty parts for locomotives	1922
80	48133-48224	Claims & investigation reports on faulty steel springs.	
81	48224-48276	Claims & investigation reports on faulty pressure tubes	1911-30
82	48276-40235	Experiments & tests on metal for plane construction.	
83	40235-48313	Correspondence and tests on wires.	
84	48313-48332	Correspondence and tests on wires.	1912-22
85	48332-70206	Patents of different nations on alloys.	1909-29
86	48340-48351	Correspondence and tests on wires.	1914-27

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
87	48351-48387	Claims, investigation reports and tests on bolts and screws.	1914-22
88	48387-48518	Claims and investigation reports on faulty springs.	1911-23
79	48211-48288	Reports of investigations of faulty material.	
80	48288-48362	Reports of investigations of faulty material, (steel wires).	1934-39
81	48362-48514	Reports of investigations of faulty steel for springs.	1924-30
82	48514-48660	Reports of investigations of broken & faulty material.	1930-40
83		Reports of investigations of cast steel samples & faulty cast steel.	1940-42
84	3051-40245	Experiments with nitrated steel also cremation of different steels.	
85	4250-4319	Analysis of steel of competitor firms.	
86	40319-40430	Experiments on saving of Chrome Manganese and tungsten in alloys.	1942
		Experiments with torpedoturbines.	1942
87	4430-70206	Foreign patent registrations pertaining to welding of different types of steel.	1936-40
88	70206-70340	Foreign & domestic patent registrations & patent applications.	1928-39
89	70340-70450		
90	70450-70500	Foreign and domestic patent registrations.	
91	70500-70524		
92	70580	Tests & experiments with aluminium alloys.	1923-30
93	4460-5540	Experiments & tests with bronze, copper & copper-nickel.	1908
94	5540-58361	Experiments with "PERMIT" and "THERMODUR".	1936-38
95		Experiment with pressure tests with discs of synthetic materials.	1940-43
96	653-70870	Procedure for production of press & ferrous permanent magnets.	1943
		Correspondence on bid for invention of porous iron.	1940
97	038-767	Reports on visiting tours to inspect shipyards & other big companies; pertaining mainly to welding processes	1937-39
98	767-868	Experiments, tests, etc. with new welding methods on all kinds of steel & cast alloys.	1936-43

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LOT: Alfred Krupp, A. ., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
89	48518-5526	Reports of examinations of broken springs for trucks & cars.	
		Patents on improvement in & relating to manufacture of sheets of iron-silicon alloys.	1933
		Patents for improved magnetic materials.	1921
90		Reports on tests on condensor pipes for steam turbines.	
		Tests & experiments with bronze & different alloys for machine parts.	1911-44
91		Reports on analysis of samples of steel & products such as razor blades, knives etc. from competitor firms.	
92	48865-48896	Reports on analysis of steel samples.	
93	48896-48931	Reports on examination of faulty or worn out parts of machinery and tools.	1920
94		Reports on the cause of blown up cannon barrels.	1915
95		Analysis of cannon parts.	1911-18
96		Welding tests & experiments.	1944
97		Welding tests & experiments.	1911-44
98		Welding tests & experiments.	
99		Tests & experiments on armor plates.	1937-44
100		Tests & experiments with welded armor plates.	
101		Density & Durability of different metals.	
102		Tests on 28 cm shells; tests on rosty tools treated with V2A corrosion.	1921
103		Tests of faulty Arty shells & cases.	1913-16
104		Performance durability of KU33, K33 & K43.	1937-41
105		Experiments with V2AED and V2BEZ.	1936
106		Tests & experiments with granades.	1912-15
107		Density & durability tests at 500° - 700° - 800° - 1000°.	1938
107		Performance & durability & tensile strength tests.	1943-44
108	K75-46832	Experiments with electrodes.	1940-42
109	46832-46867	1/4 yearly report on kitchen & construction steels.	1936-38

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LOT: Alfred Krupp, A.G., Research Laboratories, ESSEN

Film	No. File	Subject and Author or Originator	Date
100	46310-10	American boiler welding. Experiments & tests of boilers.	1937 1939
101	46871-46878	"Perlitisierende" heating of chrome-nickel steels and armor plate steels.	1938
102		Files on research, tests & experiments.	
103	Stainless steels V2A 1.1.17 & File No. 48	Experiments and tests with different types of steel for turbines and torpedos.	
99	46110-46330	Welding experiments on various steel alloys. Investigation on faulty shot welding and on unsatisfactory welding work in general.	1937-43
100	46340-K60 3/48	Examination of faulty torpedo cylinder. Hardness tests of different materials. Experiments with different rust steels.	1912 1912 1942
101	K80 IIX - 46390	Armor plate welding for the German navy. Welding rods of special material. Research reports on detection of susceptibility to breaking of spot welds by electric arc welding with special "Nichtrotherm" electrodes.	1937 1937 1937
102	46390-46510	Experiments with V2A metal to be used as welding rods and as electrodes.	1920-30
103	46510-46805	Experiments for new substitutes electric welding rod coatings.	1940-41
104	46805-43472	Experiments with density and durability tests. Experiments on the influence of heating on temper of steels.	1930-40
105	43472-871	Experiments with concibles of "SINTER" iron. Density & durability tests and tolerances for stretching under heat.	1943 1940-41
106	43472-45042	Experiments & tests on density & durability. Also tests of faulty V2A material.	1927-30
108		Analysis of steel & iron samples sent in by different firms.	1926-38
109		Tests on temper (Härte) of reclaimed plates.	1937
110 111 112		Tests of steel plates.	
113		Tests & analysis of foreign shells.	1916
114		Tests of steel plates.	
115		Tests & experiments with sheet metal and armor plate.	1916-42

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RE: Alfred Krupp, A.G., Research Laboratories, ESSEN

No. Film	No. File	Subject and Author or Originator	Date
116		Tests and experiments with armor plates and examination of a Churchill tank.	
117 118 119		Tests of steel plates.	
120		Tests of different types of pipes.	1935-36
121		Tests on cast iron.	
122		Reports of tests on claims due to faulty material.	
123		Samples of steel and iron and reports about results of experiments with same.	
124		Photos showing the composition of manganese-tempered steel.	
125		Photos of different machines, parts of such & other objects made of V2A steel.	
126		Diagrams showing the influence of various alloys on the malleability of steel.	
127		Diagrams showing the influence of chemicals on the density of steel.	
128		Diagrams of chemical experiments with steel.	
130		Examinations of sheet metal & nickel steel.	
131		Experiments with chrome steel under high temperatures.	1930
132		Experiments on nickel - chromium alloys.	
133		Report about an accident & investigation of its technical causes.	
134		Examinations of various high pressure utensils.	
135 136		Reports, tests, experiments on turbine blades.	1930

George F. Graybill
GEORGE F. GRAYBILL
Major, GSC
Asst G-2

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LIBRARY AD/I XXVII-89

XIX CORPS DOCUMENTS CENTER
Camp Dentine

23 June 45

INVENTORY REPORT

LOT: Torpedo Versuchsanstalt (Torpedo Experimental Station), Eckernforde — Source: VIII Corps

CLASSIFICATION: Naval, Scientific

Agency to which collection is deemed of interest: CNO, NAVTECMISSEU

DETAILED LIST

No. (of files, books, doc's, etc)	SUBJECT and AUTHOR or ORIGINATOR	PERIODS COVERED
1 folder	Corresp. between TVA (torpedo experimental station), and Auto-Union A.G. Werk Horch Zwickau i.Sa., Ministry for Armament and War Production, Group WI 4 (Torpedo Weapons) re: Torpedo War Heads	1941-45
1 fol der	Corresp. between Auto Union A.G. and the TVA on orders and specifications for torpedo parts	1941-44
1 folder	Corresp. between Auto Union A.G., TVA and Ministry for Armament and War Production on "Sonderausschuss WI 4" (containing orders, specifications and shipment directives)	1941-44
7 folders	Corresp., samples of parts, blueprints, etc, pertaining to Torpedoes (general)	1941-45
1 folder	Production plans of Auto Union and TVA	1940-41
1 folder	Misc. Torpedo parts (mostly FAT LUT)	1943-45

George F Graybill
GEORGE F. GRAYBILL
Major, GSC
Asst G-2

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

P/H2789/30
Cy 1

2 July 1945

INVENTORY REPORT

LOT: Polte Armaments Factory--MAGDEBURG. Present location: XIX Corps Documents Center, Bldg. No. 1

CLASSIFICATION: Technical

AGENCY TO WHOM COLLECTION IS DEEMED OF INTEREST: CIOS, Ordnance

DETAILED LIST

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
9 filing cabinets containing total of 96 drawers	Blueprints and drawings of lathes, mandrills, and other machine tools for turning shell casings of a variety of calibers: 20, 37, 65, 75, 76, 76.2, 88, 100, 105, 120, 122, 128, 150, 152, 170 mm, and for rifle cartridges. Blueprints and drawings of machine tools for tempering, necking, and crimping shells and cartridges. Blueprints and tables of machine tools for cleaning and reclaiming used and spoiled casings of various calibers. Blueprints and drawings of machine tools for feeding mechanisms for shell production, for loading shells and cartridges, and for various other steps in their production. Floorplans and installations of factories and machinery belonging to or working for the Polte Factory.	1936-45
68 cylindrical cases	Blueprints and drawings, similar to above	
9 order books	Running account of orders from and deliveries to various concerns throughout Germany, including the German Army.	
15-20 miscellaneous books, notebooks, and folders	Some small blueprints and drawings. Reports on life of machines, and mechanical changes made to machines. List of shell-producing machines, giving number under Polte system and year of construction. Personal notes dealing with physics and other technical subject matter.	

George F. Crawbill
GEORGE F. CRAWBILL
Major, GSC
Asst G-2

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Main File

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SEVENTH U.S. ARMY
DOCUMENTS CENTER
FÜRSTENHAGEN, GERMANY
APO 758

6th July 1945

LOT: Rhine Metal Borsig A.G., Central Weapon Sales Office, DÜSSELDORF

CLASSIFICATION: _____

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: _____

DETAILED LIST

1 binder each	Subject	Date
1-14	Afghanistan Correspondence, orders and price lists on 81 mm mortars, 37 mm AA/AT, 47 AA/AT, 75 Pack How. and AA guns, 105 mm How., and various other small caliber guns.	1938-41
15-16	Argentine Correspondence, price estimates of complete AA, coast arty, naval arty and field arty batteries. Correspondence with other German firms participating in the transaction.	1938-42
17-27 87A-33A	Bulgaria Correspondence, orders and price lists on 20 mm AA, 37 mm AA/AT, 75 mm AA, 105 mm How, naval guns 81 & 50 mm mortars, various gun parts, plane ornament, fuses, trucks.	1937-44
28	China Correspondence and orders on 81 mm mortars and ammunition.	1941
29-33	Greece Correspondence and orders on 37 mm AA, naval guns tank turrets equipped with 75 mm guns and 127 mm navy gun shells.	1932/40
34-35	Finland Correspondence and orders on 37, 40, 50, 105, 120 and 150 mm guns and how.	1938-40
36	Holland Correspondence & orders on naval AA guns.	1939-40
37-46	Hungary Test reports on guns and explosives, corresp. & orders on 81 mm mortars, 37 mm AT guns, 75 mm AT guns, 105 mm mortars, and bombs.	1932-44
47	Japan Correspondence on 75, 88, 105 mm AA guns and 150 mm guns.	1938-42
48	Irak Correspondence on 37 mm AA/AT guns.	1939

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LOT: Rhine Metal Bor[illegible]g, A.G., Central Weapon S[illegible]es Office, DÜSSELDORF

1 binder each	Subject	Date
49	Iran Correspondence and orders on 37 mm AT, 75 mm Inf How., 105 mm How.	
50	Italy Correspondence, bills, delivery terms on 37 mm, 75 mm AT/AA guns and ammunition.	1942
51	Poland Correspondence and orders pertaining to 37 mm AT guns and 81 mm mortars and test reports on captured Polish guns.	1939-42
52-57	Portugal Correspondence and price lists on 20 mm AA gun, 47 mm Inf How, 88 mm AA, 105 mm mountain How, 105 mm How, 81 mm mortars, telescopic sights, prime movers, bombs, 20,000 Mauser rifles. Demonstration reports of howitzers and AT guns before Portugese, Roumanian and Latvian commissions. Reports on a business trip to Portugal of a business official and on the resulting conference with Portugese army officials on the sale of guns.	1936-41
58-80	Roumania Correspondence orders and price lists on 20 mm AA 47 mm AT, 50 mm AT, 47 mm Inf How, 75 mm AA/AT 75 mm Inf How, 88 mm AA/AT, 105 mm AA, 150 mm coast arty guns, 88 mm subarine guns, 150 mm mortars, 240 mm RR guns, 105 submarine guns. Armament for submarines and minesweepers. Ammunition, depth charges.	1935-44
81-83	Siam Inter-department correspondence on sales of ammo and weapons to Siam. Report of the firms representative in Siam on the sale of weapons and ammo in relation to the sales of competitors.	1936-38
84	Slovakia Correspondence & price list on 105 mm How.	1942-44
85	Spain Correspondence on 20 mm, 37 mm, 88 mm, and 105 mm guns. Naval guns. (Also price lists).	1941-44
86-90	Sweden Correspondence and sales of 37 mm guns, 75 mm guns, 105 mm How, 150 mm How. Camouflage equipment.	1940-42
91-98	Switzerland Price offers for gun parts to the armament factory SOLOTHURN. General correspondence. Bills for 105 mm How parts. Contracts, bills and cost estimates for complete batteries of 105 & 155 mm guns and How.	1936-42

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LOT: Rhine Metal Borsig, A.G., Central Weapon Sales Office, DÜSSELDORF

1 binder each	Subject	Date
99-108	Russia Correspondence, orders, claims, contracts on guns and ammo for the Russian navy. Test reports. Folders 108 and 108A pertain partly to the redeposition of guns and ammo which on account of the outbreak of the war were not delivered to Russia.	1939-42
109-111	Correspondence, orders, claims, contracts, test reports on AA equipment for cruiser L.	1940-41
112-114	Correspondence and test reports on 105 mm AA guns and ammo.	1940-41
115	Correspondence, orders, tests on 88 mm guns and ammo for submarines.	1940-42
116	Correspondence on aerial bombs.	1940-42
117-126	Correspondence, price lists, delivery lists, test reports on guns and ammo 37 to 150 mm. Price lists for optical accessories for 88 mm submarine guns. Sales contract on guns and ammo, parts, and spare parts. Payment plans for deliveries for cruiser L.	1938-41
	Turkey	
127-138	Ikka-Hoche Armament Factory. Correspondence, detailed price lists, work sheets pertaining to raw material necessary for parts of 150 mm How.	1936-41
139-142	Corresp. delivery contracts, payment agreements between the Borsig A.G. and Ikka-Hoche pertaining to guns and machinery.	1938-42
143-153a	Lists of and requests for raw material for the manufacture of guns. Corresp. on parts and spare parts of 150 mm How. Inter-department corresp. and corresp. with contractor companies, orders for tools and machinery. Reports on conferences with Turkish officials on the establishment of a gun factory in Turkey. Price lists.	1937-42
154-165	Corresp. orders agreements on 37, 47, 50 and 75 mm pak and 105 mm guns & How. Folder No. 164 pertains to submarine guns. Folder No. 165 pert. to Dardanellen fortifications.	1938-42
166-168	Sub-contracts and correspondence with Christian Poggensee, armament factory for Ikka-Hoche.	1938-43
169-170	Correspondence and price lists, ammo cases, 37 mm guns and aerial bombs.	1936-42
171	Reports on conferences of the Turkish agency with the Turkish government to obtain new orders.	1938-42
172	Contracts between the Turkish war department and the Borsig A.G. on the delivery of material for 105 mm How and 37 mm AT guns.	1938-42
173	Correspondence on the possibility of converting 75 mm guns into AA guns.	1936
174-185	Delivery notifications and bills and corresp. pertaining to shipments of weapons, ammunition and machinery to various countries.	1938-44
186-199	Orders, price lists, delivery slips and corresp. with sub-contractors pertaining to foreign orders.	1938-44

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LOT: Rhine Metal Borsig A.G., Central Weapon Sales Office, DÜSSELDORF

1 binder each	Subject	Date
200-206	Correspondence on 20 mm, 37 mm, 47 mm, and 88 mm AT guns. 105 & 150 mm How, 50 mm & 120 mm mortars. Inter-department corresp. on manufacturing details for guns and ammo. Corresp. on 127 mm guns for export.	
207-213	Minutes on meetings of department managers. Official instructions to all departments.	1938-40
214-223	Reports from prooving grounds on tests of guns and ammo. Reports of conferences with different foreign missions. Reports of delivery of guns and ammo. Travel reports on missions to foreign countries.	
224-230	Inter-department correspondence on tests, sale and construction of guns and ammo for foreign countries.	1934-41
236-263	Corresp., orders, bills, specifications for guns mortars and ammo of 20 mm, 37 mm, 47 mm, 75 mm, 88 mm, 105 mm, 150mm between Borsig and sub-contractors.	
264-266	Original letters, reports, agreements, minutes of meetings between Borsig and foreign customers.	1935-43
267-268	Correspondence with branch UNTERLÜSS.	1938-41
269	Drawings and correspondence on 105 mm canon.	
270-272	Test firing of different guns.	1938-42
273	Price estimates.	1937
274-277	Price lists for guns & ammo.	1935-39
278	Correspondence on depth charges.	1939-42
279-282	Inter-department correspondence on sales to foreign countries.	1942-43
283-284	Reports on long distance calls.	1942-43
285-286	Copies of telegrams.	1941-43
287	Pictures and count of fragments of exploding shells.	1942
288-290	Inter-department correspondence of the Central sales office and its sub-divisions on sales of guns.	1939-43
291	Correspondence on the exposition "Schaffendes Volk".	1937
292	Correspondence on competitor products.	1939-40
293-	Price lists for guns, ammo, & gun parts for foreign countries.	1939-41

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LOT: Rhine Metal Borsig A.G., Central Weapon Sales Office, DÜSSELDORF

1 binder each	Subject	Date
294	Rationalizing of production procedures. Instructions of confidential nature, such as camouflaging of ammo transports, guarding of plants, etc.	1937-44
295-297	Inter-department correspondence and corresp. with sub-contractors on foreign orders.	1939-42
298	Reports on long distance calls.	
299	Instructions for weapons demonstrations for foreigners at home and abroad.	
300-303	Confidential correspondence with the German army high command. Orders, technical details of guns and ammo, permission to demonstrate weapons to visiting foreign army people, etc.	1937-42
304-314	Patent applications on manufacturing procedures, reports on tests of guns and ammo. Permissions by the air ministry to demonstrate all weapons at home and abroad. Correspondence with the navy department on foreign sales.	1936-44

Werner Hirschfeld
WERNER F. HIRSCHFELD
Major, GSC
Asst G-2

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

29 June 45

INVENTORY REPORT

LOT: Torpedo Versuchsanstalt (Torpedo Experimental Station), Eckernforde -- Source: VIII Corps

CLASSIFICATION: Naval, Scientific

Agency to which collection is deemed of interest: CIOS, NAVTECHMISEU

DETAILED LIST

No. (of files, books, doc's, etc)	SUBJECT and AUTHOR or ORIGINATOR	PERIODS COVERED
1 folder	Corresp. between TVA (torpedo experimental station), and Auto-Union A.G. Werk Horch Zwickau i.Sa., Ministry for Armament and War Production, Group WF 4 (Torpedo Weapons) re: Torpedo War Head:	1941-45
1 fol der	Corresp. between Auto Union A.G. and the TVA on orders and specifications for torpedo parts	1941-44
1 folder	Corresp. between Auto Union A.G., TVA and Ministry for Armament and War Production on "Sonderausschuss WT 4" (containing orders, specifications and shipment directives)	1941-44
7 folders	Corresp., samples of parts, blueprints, etc, pertaining to Torpedoes (general)	1941-45
1 folder	Production plans of Auto Union and TVA	1940-41
1 folder	Misc. Torpedo parts (mostly FAT LUT)	1943-45

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Main

LIBRARY AD/L XXVII-89

PH 2789/52
Cy 1

XIX CORPS DOCUMENTS CENTER
Camp Dentine

June 29, 1945

INVENTORY REPORT

LOT: SA Gruppe Mitte Present Location: XIX Corps Documents Center, Bldg. No. 1

CLASSIFICATION: Political

AGENCY TO WHOM COLLECTION IS DEEMED OF INTEREST: CIC, MG

DETAILED LIST

Index No.	No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
1-6	6 folders	Personnel records of SA men of SA Group Mitte (from A-B & from H-Z)	1935-42
7-8	2 bundles	File cards of SA men who earned the SA Sport Medal	
9	3 folders	Mobilisation lists, Eisleben	1936-37 1940
10	4 folders	Confidential RAD Journal	1935-39
11	1 folder	Directives on book collections for NSDAP	1941
12	2 folders	Military sporting events	1942
13	2 folders	Draft board rosters, Eisleben	1913-18
14	1 folder	Nazi Party directives of Gau Halle-Merseburg	1943-44
15	1 book	Sick reports of RAD, Eisleben	1936
16	1 folder	Reports of various SA block-wardens	1938-43
17	3 folders	Rosters of RAD (labor service) men in Hettstedt, Wippra, Alsleben	1938
18	1 folder	Billet directives and correspondence	1940-42
19	1 folder	Correspondence and announcements of party meetings	1938-43
20	1 folder	Circulars and directives on listening to foreign broadcasts	1941-42
21	1 circular	Treatment of Jews	1941

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LOT: SA Gruppe Mitte (cont'd)

Index No.	No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
22	1 folder	Court action expelling SA men	1942
23	1 folder	Administrative and organisational directives	1942
24-27	4 bundles of folders	Personnel records of SA leaders of SA Group Mitte	
28	1 folder	SA special orders	1942
29	1 folder	Membership list of 5th SA Batallion (District Mansfelder See)	
30	2 folders	Intra-party and SA correspondence, reports, circulars, announcements	1935-44
31	1 folder	RAD Personnel correspondence	1940-42
32	2 folders	Confidential SA directives	1938-44
33	1 folder	Confidential RAD directives	1939-44
34	23 folders	Miscellaneous administrative Party and S. circulars and directives	1935-45
	22 pamphlets	Political "literature"	
	40 issues	"Der HoheitsträGer", publication of NSDAP marked "Restricted"	1938-44 (incom)
	38 issues	"Die Neue Gemeinschaft", NSDAP weekly publication	1942-45 (incom)
	21 issues	Confidential information bulletin for Ortsgruppenleiter	1934-44 (incom)
	20 membership cards	Of Party and Hitler Youth men	

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

30 June 1945

INVENTORY REPORT

LOT: German documents alleging atrocities and war crimes committed by Allied Nations--NORDHAUSEN. Present location: XIX Corps Documents Center, Bldg. No. 1

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: JA Section

CONTAINED LIST

No. (of files books, doc's etc)	Subject and Author or Originator	Periods covered
Folders 1-2, dealing with USA	Records of Military Court: Sworn statements that American soldiers fired on German medical personnel.	1944
	Berlin Commandant's Court copy: Sworn statement of the murder of 8 German PW in US camp in North Africa.	1944
	Military Court, 246 VG Div: Sworn statements of 2 German officers, who, disguised as monks, attempted to go through our lines vic of AACHEN. They were arrested by our troops, and, after admitting their identity, were evacuated on a PW train, from which they escaped. They complain of treatment received from Americans: forced to clean a latrine; threatened with shooting; fed only C rations; forced to stand at attention by a Jewish officer; guarded by Negroes; etc. This document also contains the name of the monk who gave clothing to the officers, and the names of persons with whom they hid on their way back to German lines.	1944
	OKW*: Attitude of the US. Newspaper clippings concerning US attitude toward Germany before our entry into the war, disposition of German property in the US,	1942

*OKW--Army High Command. The great majority of these documents were prepared and published under the direction of the Oberkommando der Wehrmacht, Wehrmacht Untersuchungsstelle für Verletzungen des Völkerrechts (High Command of the Armed Forces, Armed Forces Investigating Office for Violations of the Law of Nations).

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LOT: German documents of Allied atrocities, (cont'd)

No. (of files, books, doc's etc.)	Subject and Author or Originator	Periods covered
	German repatriates to Germany in 1941, etc.	
Folders and bound volumes, 3-6, Poland	OKW, List of names of Polish soldiers wanted for war crimes, given to PW Administration.	1939
	OKW, Criminal cases against former members of Polish Armed Forces for criminal acts before capture.	1939
	OKW, Report of criminal case of Special Court in BROMBERG against 38 Poles. These officers and EM were tried and convicted for violations of Polish penal code during evacuation of people of German descent from border districts. Sentences vary from 5 years at hard labor to death.	1939
	OKW, Polish atrocities in BROMBERG, PLESS, and SIOPNICA; Polish atrocities against people of German descent (Volksdeutsche) and PW in Province of Posen; Violations of the law of war by Polish Armed Forces; The bloodbath among Volksdeutsche vic of LODZ; Murder of Volksdeutsche. It is alleged that acts of murder, torture, rape, and pillage were committed. Sworn statements and photos of bodies, frequently mutileted, and of mass graves.	1939-40
Folders and bound volumes, 7-19, Crete	OKW, Sworn statements of German soldiers and Cretan civilians on violations of international law by members of Greek and British Armed Forces and Cretan civilians; killing of unarmed German troops by English, New Zealand, and Australian troops; misuse of white flag and of the Swastika by British troops; bombing attacks on German hospitals; shooting down of German ambulance planes; mutilation of German bodies by Cretan civilians; notes on the resistance movement organized in Crete by the British. These documents contain the full names of all Cretan civilians who made sworn statements which in some cases led to execution of Cretans engaged in resistance movement.	1941
Folders and bound volumes, 20-34, France	Extracts from records of Gendarmerie Nationale of CHARLEROI: Statements and records concerning the shooting of French civilians by French soldiers.	1940
	OKW, Atrocities committed by French and Belgian soldiers against French, Belgian, and Dutch civilians: civilian statements charging looting, murder, and unnecessary cruelty.	1940

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LOT: German documents of Allied atrocities, (cont'd)

No. (of files, books, doc's etc.)	Subject and Author or Originator	Periods covered
	OKW, France's conduct of war in violation of international law: Force and torture used to extract information from PW; Killing and wounding of unarmed soldiers; Attacks on German fliers making emergency landings; Mistreatment of PW; Confiscation of private property of PW; Insufficient medical treatment for PW; Attacks on installations marked with the Red Cross; Misuse of the Red Cross.	1939-40
	OKW, Questionnaires filled out by liberated and exchanged PW on treatment in French camps. Also accusations against German PW who collaborated with Allies.	1944-45
Folders and bound volumes, 68-87, Great Britain	OKW, Violations of the law of war by British Army and Navy: shooting down of German rescue planes by Royal Navy; mistreatment of PW and lack of medical care; looting of stores in Belgium, Holland, and France by British troops; sinking of the German hospital ship Tübingen; "terror attacks" on historic monuments; reports by exchanged PW on their treatment by the British; etc.	1940-45
	OKW, Further violations of the law of war by British Armed Forces: acts committed in France, Greece, and North Africa; mistreatment of PW; British training manuals and field orders concerning treatment of PW and illegal methods of handling and educating PW.	1940-43
Folders and bound volumes, 68-68, Great Britain and the US	OKW, Sworn statements of German PW concerning treatment received in camps in North Africa, Canada, and the US under British, American, and French direction; attacks on hospitals; misuse of the Red Cross; etc.	1940-43
Folders and bound volumes, 69-72, Russia	OKW, Use of prohibited means of warfare by the Russians: explosive ammo and dumdum projectiles.	
	OKW, Violations of the law of war in cases of parachute descents: alleged murder and mutilation of German parachutists.	
	Ministry for Foreign Affairs, Bolshevik crimes against the laws of war and humanity: sworn statements, photos, and text. Special attention is given to alleged Russian crimes against the civil population of Poland, Latvia, Estonia, Lithuania. Examples: cases of priests crucified; pregnant women whose unborn children were	1941-42

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LOT: German documents of Allied atrocities, (cont'd)

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
	cut out of their bodies.	
	OKW, Report on war crimes by Russian Armed Forces: torture, starvation, mutilation, and murder of German PW. Bodies found with swastikas cut in the flesh. Description of a Russian "finger clippers" used in PW. This instrument resembled hair clippers, on a larger scale, causing excruciating pain and heavy bleeding.	1941-42
	OKW, Cannibalism among Russian troops: alleged cases of cannibalism in German PW camps and in combat; cases of commerce in human flesh; Russian orders prohibiting cannibalism among troops.	
	OKW, Violations of the Red Cross and attacks on hospitals. One German officer recommends to the OKW: "I believe it would be best to equip all aid personnel with automatic weapons and to remove the markings from all medical installations, since marking with the Red Cross only invites attack."	
	OKW, Russian orders stressing the importance of taking PW and treating them properly. Relatively large number of such orders may indicate difficulty in enforcing them.	
	OKW, Documents in Russian; interrogation reports of wounded Germans on Russian war crimes, Ordnance reports in Russian and German; loose photos; German stenographic reports on interrogation of Germans; photostatic copy of a report on Russian small arms ammo; pamphlet on the use of Russian arms, etc.	
Miscellaneous folders and bound volumes, 173-195	Telephone Directory of OKW and Reichsministries in Berlin, documents in Flemish and Russian; German Military Supreme Court Army, Courts-martial statistics for 1937 and 1938; further acts of violence against civilians of various countries; attitude of Brazil from newspaper clippings in 1942; Swedish newspaper clippings, OKW recommendations for compilation of material on violations of rules of land warfare; correspondence between England and Germany through Switzerland about alleged violations of the rules of land warfare; etc.	

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LIBRARY AD/L XXVII-89

XI CORPS DOCUMENTS CENTER
Camp Dentine

PH 2789/35
G1

2 July 1945

INVENTORY REPORT

LOT: Polte Armaments Factory--MAGDEBURG Present location: XIX Corps Documents Center, Bldg. No. 1

CLASSIFICATION: Technical

AGENCY TO WHOM COLLECTION IS DEEMED OF INTEREST: CIOS, Ordnance

DETAILED LIST

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
3 filing cabinets, containing total of 96 drawers	Blueprints and drawings of lathes, mandrills and other machine tools for turning shell casings of a variety of calibers: 20, 37, 45, 75, 76, 76.2, 80, 100, 105, 120, 122, 128, 150, 152, 170 mm, and for rifle cartridges. Blueprints and drawings of machine tools for tempering, necking, and crimping shells and cartridges. Blueprints and tables of machine tools for cleaning and reclaiming used and spoiled casings of various calibers. Blueprints and drawings of machine tools for feeding mechanisms for shell production, for loading shells and cartridges, and for various other steps in their production. Floor plans and installations of factories and machinery belonging to or working for the Polte Factory.	1936-45
58 cylindrical tubes	Blueprints and drawings, similar to above	
9 order books	Running account of orders from and deliveries to various consums throughout Germany, including the German Army.	
15-20 miscellaneous books, notebooks, and folders	Some shell blueprints and drawings. Reports on life of machines, and mechanical changes made to machines. List of shell-producing machines, giving number under Polte system and year of construction. Personal notes dealing with physics and other technical subject matter.	

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XII CORPS DOCUMENTS CENTER
Camp Darling

HISTORY REPORT

1:300,000 Lot No. 14

1:100,000 Relating limitations in Lot No. 28

Same as above Lot No. 31

1:1,000,000 Lot No. 34

1:25,000 Boundaries of Unterkreis IX Lot No. 35

1:100,000 Series 1/50 GS Lot No. 44

France, Holland, Belgium, 1:300,000 Lot No. 57

1:200,000 Lot No. 61

1:25,000 Lot No. 70

1:300,000 Lot No. 78

1:300,000 Lot No. 82

1:500,000 Lot No. 87

1:25,000 Lot No. 87

1:300,000 Lot No. 94

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Military Geographic (Engr) Section, Fenr Befehls Kommando IX, EASTERN

No. of Files, Maps, Cod's, etc			Subject and Author or Originator
0 Maps	Rumania	1:100,000	Lot No. 5
14 "	"	1:100,000	Lot No. 6
12 "	"	1:100,000	Soviet Fortifications Lot No. 8
22 "	"	1:100,000	Lot No. 10
2 "	"	1:100,000	Lot No. 11
6 "	"	1:100,000	Lot No. 54
28 "	"	1:100,000	Lot No. 75
1 "	"	1:100,000	Lot No. 102
132 "	Rotate	1:300,000	Lot No. 19 Some Engr Maps
136 "	"	1:100,000	Lot No. 55
5 "	"	1:50,000	Lot No. 56
129 "	"	1:200,000	Lot No. 60
58 "	"	1:300,000	Gen. Staff Sheets Lot No. 62
28 "	"	1:500,000	Lot No. 62
1 "	"	1:500,000	Lot No. 63
208 "	"	1:50,000	Lot No. 65
0 "	"	1:2,000,000 - 5,000,000	Lot No. 114
	Rotate Overlay Maps		
23 "	Germany	1:10,000 viz.	ASCHAFFENBURG Lot No. 120
10 "	"	1:200,000	HONGEN Lot No. 121
2 "	"	1:100,000	HOADHAUSEN Lot No. 125
69 "	"	1:25,000	Lot No. 126
842 "	"	1:25,000	Sheets No. 2400-0039 Sets No. 127-137 Incl.
82 "	"	1:200,000	Lot No. 138
78 "	"	1:300,000	Lot No. 139
39 "	England	1:100,000	Lot 122

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Loc: Recruiting Bureau of the Waffen SS and the Army. (Recruiting Section Rest: IV). Contd

No. of files, (Name, Date, etc)	Subject and Author or Originator	Periods covered
[illegible]	[illegible] Commanders of Area Commands	
"	[illegible] recruiting plans	
"	[illegible] personnel in connection with [illegible]	1945
"	[illegible] transportation	
"	[illegible] transferred records to and [illegible] Army	
"	[illegible] to become regular [illegible] born in the years '27-'30)	
"	[illegible] & dishonorably [illegible] personnel	1940-42
"	[illegible] enlistments into Waffen SS	

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LIBRARY AD/I XXVII-89

#H2789/38
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XIX CORPS DOCUMENT CENTER

7 June, 1945

INVENTORY REPORT

LOT: Reichsbahn (German State Railways)

CLASSIFICATION: Military

Present Location: XIX Corps Document Center, Bldg. No. 3

AGENCY TO WHOM COLLECTION IS DEEMED OF INTEREST: Corps of Engineers

Entire collection consists of engineering data compiled by the Reichsbahn in cooperation with the Army, containing plans, blueprints, statistics and reports about railways, railroad nets and installations in Poland and Russia.

DETAILED LIST

No. (of files, books, doc's etc)	Index No.	Subject and Author or Originator	Periods covered
1 case, number 1:			Dates for entire case are: 1942-1943
1 bundle	1	Maps of various Russian railroad stations made from aerial photos	
1 bundle	2	Survey data obtained from aerial photos	
1 bundle	3	Plans of railroad lines of route Bigosowo-Smolensk	
1 bundle	4	Plan of Dnieper bridge, vic. Orsha	
4 bundles	5-8	Detailed plans of railroad line routes Stararuchka-Bryansk, Vitebsk-Owrutsch, Minsk-Gomel, Gomel-Bachmatsch	
4 bundles	9-12	Detailed plans of railroad stations Mogilew, Polozk East and West, Unetschna and Novgorod Seversk, Gomel	
1 bundle	13	Detailed plans and profiles of railroad net Orsha	
1 bundle	14	Profiles of railroad bridges on various routes	
2 bundles	15, 16	Engineering data on various railroad lines and bridges	
1 bundle	17	Engineering data on various railroad installations	
1 bundle	18	Mappings of various railroad stations on heavy paper	
3 bundles	19-21	Situation plans of railroad routes Molovetschno-Polozk Newel-Wel-Luki, Orsha-Kritschew, Minsk-Smolensk	
Case number 11:			
½2 of case contains:		Rolls and bundles of layout plans of different railroad stations and routes	1942-44

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LOT: Reichsbahn, (cont'd)

No (of files, books, doc's etc)	Index No	Subject and Author or Originator	Periods covered
1 folder	1	Calculations concerning the railroad station in Rudensk	1942
1 folder	2	Plans of route Mussiny-Timkowitzschi	1942
1 folder	3	Plans and calculations of station Lida	
1 bundle	4	Sketches of bridges on route Gomel-Tsrnigow	1943
1 bundle	5	Sketches of main station Gomel	1942
1 folder	6	Survey sketches of extensions of station Gudogaj	1943
1 folder	7	Survey data and sketches of station Gorodoischtschi	1943
1 folder	8	Sketches of traffic layout of main station Baranowitsche	1943
1 folder	9	Survey plans of station Mikaschewitsche	1942
1 folder	10	Survey data and plans of station Farnipol	1943
1 folder	11	Plans of stations on route Nowosibkow-Nowobeliza	1943
1 folder	12	Data for bridge planning	1942
1 folder	13	Business plan of the Reichsverkehrsdirektion, Minsk	1943
1 folder	14	Survey plans of station Usipowitschi	1943
1 folder	15	List of available tools in Zentralplanei der Generalverkehrsdirektion Osten	1944
1 bundle	16	Plans of stations on route Gomel-Tschernigow	1943
1 bundle	17	Plans of station Nowobeliza	1942
1 folder	18	Index of routes No. 1-39a and narrow gauge routes No. 101-130	1944
1 booklet	19	Index of railroad stations and routes in the Eastern Ukraine	1942
1 bundle	20	Plans of railroad stations on route Gomel-Bachmatsch	1943
1 folder	21	Survey sketches and data on railroad station Lida	1942
2 bundles	22, 23	Diverse plans, survey data, personnel records, etc.	1942-43
Case number 111:		Sketches and layouts of railroad stations in Russia	1942-43

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No (of files, books, doc's etc)	Index No	Subject and Author or Originator	Periods covered
Case number IV:			
1 folder	1	Blueprints and calculations for railroad bridge over the Welikaja on route Walk-Pleskau	1942
1 bundle	2	Plans and calculations of railroad bridge on route 209 Dno-Nowosokoln	1941-42
1 bundle	3	Blueprints and calculations of railroad bridges on route 241 Pawlowsk II -Novogorod	1941-42
1 bundle	4	Blueprints and calculations of temporary bridges on route Pleskau-Petersburg	1941-43
1 bundle	5	Plans of railroad station installations such as water tanks, pumps, switches etc.	1942
1 bundle	6	Aerial photos of Russian railroad stations	1942
1 roll	7	Lists in chronological order of railroad bridges built by the Germans in Russia	1942-43
1 roll	8	Plans of railroad bridges (various types)	
1 folder	9	Plans, calculations and directives on temporary bridges provided with ice-breakers	1941-43
1 folder	10	Index of bridges on the Baltic-Russian sector	
3 folders	11, 11a, 11b	Detailed data including plans and pictures of Russian railroad bridges	
1 folder	12	Plans of railroad bridge over Luga on route Pleskau-Petersburg	1942
1 folder	13	Data and plans on Schelon bridge on route Pleskau-Staraja/Rus.	1942-43
1 folder	14	Plans, calculations and data on Luga bridge route Petersburg-Dno	1942-43
1 bundle	15	Plans and calculations concerning the Welikaja road bridge in Pleskau	1943
1 folder	16	Plans and documents concerning the transfer of temporary bridges to the Railroad Field Command No. 4	1942

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LOT: Reichsbahn, (cont'd)

No (of files, books, doc's etc)	Index No	Subject and Author or Originator	Periods covered
1 folder	17	Plans and data of the Nawan bridge on route Dwjenskaja-Tschudowo	
1 folder	18	Sketches of bridges along various routes	
1 bundle	19	Temporary bridges on various routes	1941-42
1 bundle	20	Plans and calculations concerning clearances on railroad bridges	1942-43
Case number V:		Blueprints of bridges on German-operated railroad lines in Russia	1941-44
Case number VI:		Sketches and layouts of railroad stations in Russia	1942-43
Case number VII:		Plans of different railroad stations and routes; station installations	1942-43
Case number VIII:		Detailed drawings of layouts of Russian railroad stations on German-operated railroad lines	1943-44
Case number IX:		Plans, layouts of railroad stations, station installations	1942-44
1 case number X:		Plans, drawings and safety plans of railroad stations, routes, installations etc of German-controlled railroad lines in Poland	1940-43
1 Case number XI:			
14 folders	1-14	Layouts and sketches of railroad stations at Kamien-Krolewsky, Brest (East), Zantynowo, Kobryn, Koschilowo, Zabinka, Stolpy, Tewle, Las, Oranczyce, Pawlowicze-Poleskie, Malascewice, Sniowo, Janow-Polesien	1942-43
2 folders	15, 16	Layouts and sketches of various railroad stations	1942
1 folder	17	Layouts and sketches of railroad station Maloryta	1942
23 folders	18-41	Layouts and sketches of railroad stations at Wlodawa, Bronna-Gora, Beresa-Kartuska, Brest (Main Station), Brest (East), Brest (South), Bernady, Zoden, Lyszczyce, Porczezin, Zakrucin, Lipowo, Brylowo, Domaszewicze, Horodec, Wulka-Horodeca, Kamienna, Lipniki, Drogitschin City	1942-44

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LOT: Reichsbahn, (cont'd)

No (of files, books, doc's etc)	Index No	Subject and Author or Originator	Periods covered
3 folders	42-44	Survey plans of various railroad stations	1943
1 folder	45	Survey plans of bridge and building material dump, Scharfenwiese	1944
1 folder	46	Unfinished construction and index of work orders for survex group Brest	1943
1 folder	47	Survey plans of rails and switches	1942
1 folder	48	Directions for the mapping of railroad stations	
2 folders	49-50	Survey plans of routes Czeremcha-Kowel and Baranowitsche-Brest	1942
1 bundle	51	Miscellaneous plans, drawings and calculations	1942-43
Case number XII:		Detailed drawings, surveys, profiles etc of railroad net at Brest-Litovsk and surroundings	1942-43
Case number XIII:			
1 bundle	1	Plans, calculations and correspondence on Leiziorupa bridge near railroad station at Pozerunei	1942
1 folder	2	Plans for the reconstruction of the railroad bridge over the Welikaja	1943
1 folder	3	Plans and calculations for a turntable	1943-44
1 folder	4	Photo collection of various bridges	1941-42
1 bundle	5	Blueprints of various bridges in Riga area	
1 bundle	6	Plans, calculations and work reports on railroad line near Pleskau	
66 bundles	7-72	Plans, calculations, blueprints, maps, work progress reports, correspondence etc of various bridges, railroad lines, railroad stations and station installations	1941-43
Case number XIV:			
1 folder	1	Profiles, sketches, plans of different railroad bridges	1944
21 folders	2-22	Bridge indexes of routes Jarny-Luniniec, Luniniec-Baranowitsche, Lida-Baranowitsche, Baranowitsche-Zelwa, Kowel-Brest, Minsk-Gudogaj, Nowosokolniki-Newel, Polozk-Moloveszno, Vitebsk-Polozk, Vitebsk-Odessa, Gomel-Bobryusk,	1941-42

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LOT: Reichsbahn, (cont'd)

No (of files, books, doc's etc)	Index No	Subject and Auther or Originator	Periods covered
		Makoschino-Gomel, Polozk-Newel, Bobryusk-Minsk, Minsk-Baranowitsche, Gomel-Minsk, Gomel-Luniniec, Luniniec-Zabinka, Kalinkowitsche-Gomel, Lida-Wolkomysk, Orsha-Minsk	
1 folder	23	Bridge index of various other routes	
5 bundles	24-28	Bridge index, bridge forms, plans, sketches and engineering data	1941-43
Case number XV:			
1 folder	1	Construction of branch line from Baranowitsche to German frontier	1944
1 folder	2	Construction of branch line Shabinka-Gomel; complete collection of drawings and lists of bridges used for this construction	1943
1 folder	3	Profiles, reports and engineering details of various bridges	1942-44
1 bundle	4	Directives on how to paint railroad signals, switches and ramps	1934
4 bundles	5-8	Chart of different bridge types, engineering data, technical charts compiled by the RVD (Reichsverkehrsdirektion-German traffic direction)	1942-43
6 bundles	9-13 A	Charts, profiles and data on railroad switches, signal towers, electrical installations etc.	1940-42
1 folder	14	Index of bridges at: Minsk, Polozk, Mlodetschno, Orsha, Gomel, Katyn, Mogilew, Unetscha, Kalinkowitsche, Brest-Litovsk, Baranowitsche	
1 folder	15	Data on bridges to be reconstructed which were destroyed by partisans	1942 .
31 rolls		Charts and drawings of safety plans, giving locations of safety devices at various railroad stations	1942-43
Case number XVI:		Blueprints of bridges on German-operated railroad lines in Russia	1941-44
Case number XVII:			
1 bundle	1	Plans of the Dnieper bridge at Orsha	1942-43
1 bundle	2	Plans and calculations of railroad bridge on route Kowal-Brest	1944
1 folder	3	Plans of the railroad bridge over the Duna river on route Vitebsk-Orsha	1942
1 bundle	4	Plans and calculations and building reports on the Dnieper bridge near Orsha	1941-42

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Reichsbahn, (cont'd)

No (of files, books, doc's etc)	Index No	Subject and Author or Originator	Periods covered
1 folder	5	Plans of railroad bridges vic Mogilew	1942
1 folder	6	Plans, profiles, calculations of a bridge crossing on route Minsk-Baranowitschs	1943
1 folder	7	Plans and calculations on Lesna bridge on route Brest-Uzeremcha	1943
1 folder	8	Plans of Ryta bridge on route Kowel-Brest	1941
2 bundles	9, 10	Plans and data on Düna bridge, Polozk	1941
1 folder	11	Plans on Düna bridge, Polozk	1941
1 folder	12	Repair of broken dam, vic Mogilew	1942
1 bundle	13	Drawings of bridges on route Molodetschno-Polozk	1942
1 bundle	14	Designs for Dnieper bridge, vic Metschina	1942
1 folder	15	Plans of temporary railroad bridges on route Molodeczno-Lida	1942
1 folder	16	Statistical calculations on railroad bridge, Sluck	1943
1 folder	17	Plans and calculations on the extension of double tracks on route Luninec-Zabinka	1943
1 folder	18	Compilations of constructions on route Kowel-Brest Litovsk-Uzeremcha-Chelm	1942
1 folder	19	Bridge sketches from the operational offices, Brest-Litovsk and Baranowitschs	
1 folder	20	Plans and data on the Sarjanka bridge on route Polozk-Indra	1941
1 folder	21	Data on railroad bridge across Obol-janka river on route Vitebsk-Orsha	1942
1 folder	22	Bridge plans and sketches on route Rosty-Lida-Molodetschno-Polozk	1942
1 folder	23	Plans and profiles of railroad bridge across Bosh vic Gomel on route Bachmatsch-Gomel-Minsk	1941
1 folder	24	Survey report of destroyed bridges on route Gomel-Luninjec	1941
1 folder	25	Plans and profiles of bridges on route Smolensk-Orsha	1943
1 folder	26	Plans and data on Düna bridge vic Vitebsk	1942

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Reichsbahn (cont'd)

No (of Files, books, doc's etc)	Index No	Subject and Author or Originator	Periods covered
1 folder	27	Russian blueprints of bridges and railroad installations on route Kalinkavichy-Mikashevichy	1933
1 folder	28	Technical calculations on railroad bridge Düna vic Polozk	1943
1 pamphlet	30	Meteorological reports of river nets in the central sector of the Eastern front	1943
1 folder	31	Ice and flood reports of Russian rivers, Spring 1943	
2 folders	32, 32a	Profiles of various bridges	1932
1 folder	33	Calculations for the single-track railroad bridges over the Duna R. vic Polozk, reconstructed in 1942	
1 list	34	Index of bridges over 25 meters in the district of Minsk	
1 folder	35, 35a	Engineering data, profiles and correspondence on various bridges	1942
1 folder	36	Szczara bridge on route Baranowitsche-Brest	1942
1 folder	37	Temporary instructions and directions in carrying winter protective measures on railroad bridges	1942
1 roll	38	Profiles, engineering data and construction data of railroad bridges	1942
5 bundles	39-43	Calculations, engineering data and sketches of various bridges	1942-43
Case number XVIII:			
24 bundles and folders		Plans, calculations, blueprints, correspondence etc. of various railroad bridges, stations, lines etc	1941-43

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XIX CORPS CONCENTRATION CENTER
Camp Denning

3 June 1946

INVENTORY FIELD

LOT: Waffen SS Personnal Records---KOTHAUSS

CLASSIFICATION: _____

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: TIC; MC

DETAILED LIST

No. (of files, books, docts, etc)	Subject and Author or Originator	Periods covered
685 cabinets of 4 drawers each	Individual folders of Waffen SS men and officers, German and other nationalities, with occasional folders of Allgemeine SS and of female typists and secretaries in SS or Race and Settlement offices. Records are distributed in 2 or 3 alphabetical filing systems, differences in purpose not apparent. Records deal chiefly with applications for permission to marry, resulting in lengthy correspondence to and from the Race and Settlement Office, and other official correspondence pertaining to the subject. Papers for both the SS man and his fiancee include character references, physical examinations, family ancestry back to grandparents, financial statements, photos, autobiographies, religious affiliations, etc.; SS number and SS unit of individual at time folder was opened; changes in rank or unit as they appear in correspondence; signatures of SS physicians, high-ranking SS officers, and officials in various offices.	Early 30's to 1946

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XIX CORPS DOCUMENTS CENTER

Camp Dentine

June 15, 1945

INVENTORY REPORT

LOT: Plant Records of I.G. Farben Plants in various parts of Germany. Present location: XIX Corps Document Center, Bldg. No. 14

CLASSIFICATION: Scientific

Agency to whom collection is deemed of interest: CIOS

DETAILED LIST

No. (of files, books, doc's, etc.)	Subject and Author or Originator	Periods Covered
23 wooden boxes:		
Box TAB/1	(Technische Abteilung Bau) Technical Building Construction Dept. Records & plans of the construction of the Buna Works (synthetic rubber), built by Ammoniak Werk, Merseburg (Leuna Werke). Application & authorizations for construction of plant, roads, water, gas, electrical & [illegible] communication systems. Detailed plans, drawings, specifications. Plans and permits for expansion & enlargement of Buna Works with reasons for enlargement up to 1944.	1936-37 1936-44
Box TAB/2	Further applications for permission to enlarge Buna Works, also permission to install new water systems. Descriptions, charts, diagrams etc. dealing with operating procedure of various parts of plant producing synthetic rubber and other chemicals.	1938-44
Box TA/M No. 1	(Technische Abteilung Maschinen) Technical machine Dept. Research reports, records, dissertations, drawings on technique of distillation prepared by Chief Engineer Dr. Amann. Similar records by Engineers Doebber, Timm, Verneburg on the following subjects: Methyladipinic acid and Esterol, Mepasine Sulphate, Palatinol I & II, SS-Oil (trade name), Alkydal, Monochloracetic Acid, Vinylchloride (Ludwigshafen), Isobutylphenol, Weichmacher (trade name).	1940-44
Box TA/M No 2	Technical research Index of 59 articles, publications & papers on metallurgy, particularly pertaining to the Schwainfurt industries.	1933-44 1944

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No. (of files, books, doc's) etc.	Subject and Author or Originator	Periods Covered
	Index to articles on plant maintenance	1933-42
	Chemical report on synthetic rubber process with photographs and charts	1943
	Various metallurgical reports	1940-44
	Report on reasons for enlargement of Buna Works	1940
	Laboratory notes, graphs, charts on water treatment	1943-44
	Study of prevention of corrosion	1937-43
	Report on drying processes	1938-44
	Report on the development of porcelain pump	1942
	Reports on development of stereol furnace	1940
	Laboratory notes	1939-41
	Instruction books on installations within works	------
	Research data on heat exchange apparatus and estimates	1943
	1 bundle of factory regulations	1940-44
	Manual on physics and mechanics, on CO_2 water treatment, Report on polymerisation	1941
	Report on speed of polymerisation with pressure refractometers	1939
	Report on backwater purification	1941
	Various other reports on polymerisation	1941
	Report on refrigeration installation	1941
	Report on mechanical compressors, Ethyl-Benzol distillation	1939
	Various patent applications for disposing of foam in backwater	1939
	Electrical processes of latex treatment and polymerisation methods	1939
	Plans for distillation apparatus	1944
	Report on ammonia distillation & equipment	1928-30
	Various plant process reports Engineering plans, building plans	1940 1939-40

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LOT: Plant records of I.G. Farben, (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods Covered
Box TA/M No 3	Technical manual for engineering dept. of I. G. Farben	1937-43
	Technical reports and research papers on thermo-dynamics, heat transfer, absorbtion, distillation, synthetic rubber	
Box TA/M No 4	Flow diagrams, wiring diagrams & building plans	1937-45
	Reports on thermo-dynamics, distillation, heat transfer, corrosion	1942-45
	Administrative memoranda	1943
	Drawings of valves and storage tanks	
Box BK No 1	Specifications for steam turbines	1937-42
	Research papers exchanged within I.G. Farben	
	Slides of instruments and tools	1932 & 1934
	Patents for shaker tables	
	Sketches of electrical wiring & motors	1937
	New prints of machinery	1940
	Energy reports	1944
	Power reports	
	Heat balance reports	
	Data on thermo-dynamics	1937-42
	Physics research reports	
	Production reports	
	Apparatus, description and photographs	
Box BK No 2	Laboratory procedure regarding temperature regulation and control	1937-39
	Research on pH	1937-39
	Blueprints for plant administration	1938
	Instructions and charts for aldolisation	1937-40
	Diagrams of furnaces for styrol & butadiene	1938-40
	X-Ray and dark field photographs of cross-sections of metals	_____
	Process records of instrument and pressure gauges taken during the distillation of butadiene, styrol, butol, butanol & butandiol	_____
	Stock lists of various measuring apparatus	

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LOT: Plant records of I.G. Farben (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods Covered
	Technical correspondence	1937-44
	Measuring charts & correspondence	1937-42
	Laboratory reports & tabulations	1944
	Reports on applied physical and engineering chemistry	1934-44
	Photostatic copies of technical, engineering & physics magazines entitled: Brennstoff und Waerme-wirtschaft, Die Chemische Fabrik, Die Waerme, Forschung auf dem Gebiet des Ingenieurwesens, Das Gas- und Wasser-Fach, plus various other I.G. Farben publications.	1934-40
	Photostatic articles from various technical publications	
Box TA/E No 1 (BU W)	(Technische Abteilung-Einrichtung Technical Dept for Installations) Buna Werke, Schkopau	
	Blueprints on water reservoirs & on water treatment	1931
	Records of experiments with electrical filters	
	Description of operation of utility system	1940-41
	Records of electrical current transformation	1940
	1 photo album: pictures of power plants	1937-40
	Report on the construction of a ground water system	1938
	Business arrangements & contracts concerning electricity	1941-42
	Description of a power plant - A 65	1940-43
	Charts & records on Buna Works' coal consumption	1940-44
	Reports of experiments made by Dr. Manse (electric furnace calculations)	1941-42
	Records on water supply	1942-43
	Records on electric current supply drawn from "Elektrizität-Werk", Sachsen-Anhalt A.G.	1936-37
	Graphical drawings pertaining to utilities	1938-42
	Research on high-voltage electrical furnaces	1942-43
	Records and drawings of Buna Works designing bureau	1937-44
	Technical drawings of power plants J72	1941-43
	Description & pictures of power plant II	1940-42
	Energy calculations	1937-42

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LOT: Plant records of I.G. Farben (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods Covered
	Table of gas constants	1932
	Regulations for installation of electric conduits	1940
	Research on magnesium	1937
	Valve diagrams	1944
	Records & drawings of brine-lines	1940-43
	Plans, details & specifications for gas storage tank	1940
	Principles of energy calculation	1944
	Proposed patent for modified steam engine	1942
	Records of grounding of electrical equipment	1938-40
	Research reports by O.I.Lettow, electricity expert	1940-44
	Miscellaneous files of Buna Works	1936-44
Box TA/E No 2 (BU W)	Records pertaining to sanitary installations, ventilation & air-conditioning of workers' homes & settlements	1939-40
	Documents belonging to officials of Buna Works: Chief Engineer Gaydoul, Chief Engineer Sachs, Chief Engineer Lettow. Various documents pertaining to the utilities and utility systems supplying the Buna Works	1939-43
Box HL No 1	(Herstellungs-Laboratorium Production-Laboratory)	
	Laboratory reports	1925-37
	Patent applications	1931-37
	Reports on synthetic wool, Approx 10 laboratory journals	1936-37
Box UL No 1	(Untersuchungs-Laboratorium Research Laboratory)	
	Quarter-yearly reports on scientific research	1939-44
	I.G. analyses of Butadine	1928
	Index of 600 IG analyses	1928-44
	Analyses No 1-350 in box UL No 1	1941-44
	Quarter-yearly compilation of IG research studies	
	Alphabetical file cards with special reference to publications	
	File cards of analytical study of competitors' commercial goods	
Box UL No 2	I.G. patent applications with descriptions, graphs, diagrams, etc	1930-34
Box UL No 3	Index of I.G. exchange patent applications	Dec 36-Nov 44

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LOT: Plant records of I.G. Farben, (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods Covered
	Excerpts of IG patent applications	1940
	Reports of shellac conference	
	Reports of the KUKO (English unknown)	1939-40
	Reports of the ZETKO (central committee)	1938-44
	Various other IG committee reports	up to 1944
Box UL No 4	70 copies of Chemiker-Zeitung	1934
	90 copies of Zeitschrift für Elektro-Chemie und Angewandte Physikalische Chemie	1929-41
	Research papers on catalysts, data, charts, formulae etc on sewage disposal, water treatment	1943-44
	Report on water supply & water treatment in Buna Works	April 1943
	Report on discussions about dumping slag in Saale river	1937
	Analyses of competitive products (6 bundles)	1936-43
	Laboratory methods of synthesis of amino & azo derivatives; qualitative & quantitative analysis	1939
	Reports on laboratory research (organic), approx 2500 cards of laboratory analyses of synthetic products, approx 100 cards of laboratory processes	1928-36
	Research reports of Buna Works on determination of double bond in Buna polymerisation	1942
	6 copies of Research on Inhibiting Action of Pentachlorphenol and Sodium-pentachlorphenate on growth of micro-organisms	1944
	1 set of file cards-Index of published researches	____
	96 reports: researches on Buna, Buna S, ingelit, styrol, olefines, polysterol, vinol & plastics	1939-44
	24 IG research publications (Erfahrungs-übersicht)	1939-44
	2 handbooks of chemistry & physics	____
	1 folder of water lines and treatment data-- Schkopau	1937
Box TA/Bd No 1	(Technische-Anstalt, Büro-Direktor Technical Dept- Office Director)	
	Proposed Buna plants of IG Farben in various places in Germany & Russia	1938-40
	Labor breakdowns in technical depts.	Feb 1945
	Conferences & plans about Buna plant in Auschwitz	1941-43

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LOT: Plant r o of I.G. Farben (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods Covered
	Various projects for Buna plants	1936-39
	Cost data & expenditures	1938-43
	Project Piesteritz	1935-36
	Project in Schkopau (unfinished)	1939-43
	Reports on technical & fiscal aspects of Schkopau project	1937-40
	Monthly building reports	1943-44
	Project Breslau	1939-40
	Correspondence on raw chemicals	1941-43
	Deadline on delivery dates of Buna & derivatives	1936-43
	Buna 4-year plan	1936-37
	Plant description, Buna & IG	1936-41
	Use of electricity in plants	1940-43
	3 bundles of technical research reports	1941-43
Box TA/M/HZR No 5	(Technische-Abteilung, Maschinen, Haupt-Zeichnungs-Registratur Technical Dept-Machines-Main Drawing Registry)	
	Revision & extension drawings & blueprints of installations of Buna plants	1942
No 6	Blueprints & drawings of steam tubes, pressure types & various other Buna installations	1933-44
No 7	Blueprints of buildings & installations of Buna works, Schkopau	194?-44
No 8	12 bundles & packages of blueprints & drawings of various Buna & I.G. Farben installations; Werk Schkopau, Ludwigshafen etc.	1938-44
	Blueprints & plans of technical apparatus & accesories of Buna Works	1940-44
No 9	Plans & blueprints of motors, drainage & electrical installations of IG Farben, Leverkusen	1937-44
	Boilers, building layouts, heating equipment, pipe layouts for various products, i.e. latex, etc.	
No 10	Index files to blueprints of HZR	
TA/EL/E 917	(Technische Abteilung-Elektrische Einrichtung---Tech Dept-Elec Install) Blueprints of electrical installations of Buna Works in Schkopau incl. cables, transformers, etc.	1939-43

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

June 25, 1945

INVENTORY REPORT

LOT: Physikalisch-Technische Reichsanstalt (Bureau of Standards), formerly at Ruhla Present Location: XIX Corps Documents Center, Bldg. No. 3.

CLASSIFICATION: Scientific, Business & Economic

Documents contained an index to classification of items as used by the Germans. Classifications are as follows:

Index No.	No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
H	3 bundles	Buildings and recent installations: plans, blueprints, maintenance data	1941
1A	1 bundle	Reports of general scientific works	1938
1C	1 bundle	Laboratory reports of measuring apparatus for scientific and technical research	1939-44
1F	1 bundle	Laboratory for measuring instruments for fluids.	1922-43(inc)
1M	2 pamphlets	Laboratory reports for measuring machines and tools	1936 & 1940
II E	2 bundles	Laboratory for electrical norms	1927-45
II F	12 bundles 4 pamphlets 3 pamphlets 14 folders	Laboratory for magnetics Krupp research reports Krupp technical reports Correspondence with various firms, e.g. Siemens, Phillips, Leybold, Leitz, Zeiss, Askania etc; technical data on laboratory tests	1932-44 1938-42 1936, 39, 40 1938-44
II K	9 bundles 3 bundles 4 folders	Laboratory for alternating current norms Catalogues Shipping slips, correspondence	1894-1944 1942-44
II M	17 bundles 1 bundle	Machine laboratory Reports and catalogues	1926-45
II P	2 bundles	Reports of electrical testing laboratory	1940-42

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LOT: Physikalisch-Technische Rechtsanstalt (cont'd)

Index No.	No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
II R	8 bundles	X-Ray laboratory	1932-45
	3 bundles	catalogues	
	49 folders	Records of international X-Ray congresses, charts and research of constants. Records of International Standardisation Commission. Records of German Research Foundation. Correspondence on X-ray research.	1928-44
II S	18 bundles	High -tension laboratory	1930-44
	1 bundle	On moulding materials, with attached tag stating (in English) that work contained in folder is still unfinished and that research should be continued as soon as possible.	
	1 book	Physical and chemical properties of rubber	1935
	1 book	Detailed tables of humidity calculations	1941
	2 bundles	Catalogues	
	45 folders	Technical and business correspondence with different firms, laboratory tests, research papers and laboratory publications.	1934-44
II W	29 bundles	Alternating current laboratory	1920-44
	1 bundle	Photostatic copies of electrical engineering reports	1940-41
	4 bundles	Catalogues, reports and pamphlets of various firms.	
	32 folders	Publications of Archives of technical measurements. Correspondence on laboratory research	1931-44
III	(Consists of 8 laboratories dealing with the subjects of heat and viscosity.)		
	1 bundle	Diaries of this section	1940-45
	1 folder	Essay on "50 years PTR" (Physikalisch-Technische Rechtsanstalt)	
	1 bundle	General correspondence	1941-43
III D	3 bundles	Directors' laboratory	1930-45
	2 bundles	Physical reports, heat tables and catalogues	1931-44
	3 folders	Administrative matters and regulations	1943-45

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IC3: Physikalisch-Technische Rechtsanstalt (cont'd)

Index No.	No (of files, books, doc's etc)	Subject and Author of Originator	Periods covered
III P	1 bundle	Laboratory for fever thermometers	1942
	1 bundle	Price lists and catalogues of different firms	
	1 folder	Official correspondence	1943-45
III M		(Pressure and Expansion Measurement Laboratory)	
	1 bundle	Excerpts from various technical publications	1932-42
	2	Price lists and catalogues of firms	
	2 folders	Technical drawings	
III O	2 bundles	Laboratory for Pyrometry	1940-44
	1 folder	Laboratory research	1944
III V	9 bundles	Laboratory for viscosity and oil machinery	1929-42
	6 pamphlets	Automotive research and gasoline	
	77 folders	Laboratory research, Correspondence, Technical data	1933-45
III W		(Laboratory for Thermodynamics)	1927-44
	12 folders	Technical drawings, correspondence, laboratory research	
III Z	6 bundles	Laboratory for Thermodynamics	1931-45
	1 bundle	Price lists and catalogues	
IV L	2 folders	"Interferenzspektroskopie" laboratory	
IV O	2 bundles	Laboratory for photo-optics	1937-38
	4 bundles	Price lists and catalogues	
	12 folders	Catalogues, test requests, circulars and regulations. Correspondence	1933-44
IV P	2 bundles	Laboratory for photometry	1937-44
	8 folders	Correspondence and research	1941-45
IV S	14 bundles	Radiation laboratory	1922-45
	6 bundles	Price lists and catalogues	
	2 bundles	Physical and electrical literature	
	2 bundles	Excerpts from technical books and research papers	
	12 folders	Laboratory records, scientific correspondence, workshop installations and test records	1929-44
V C	1 bundle	Physical-Chemical laboratories	1936-45

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LOT: Physikalisch-Technische Rechtsanstalt, (cont'd)

Index No.	No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
V P	3 bundles	Photochemical laboratory	1927-45
V S	3 bundles	Laboratory for Spectroanalysis	1937-45
VI F	13 bundles	Laboratory for precision mechanics	1937-44
	5 bundles	Price lists, catalogues, physical literature	
	138 folders	German electrical constant test requests, laboratory records, charts, laboratory calculations, German Army constants and Correspondence	1909-45
VI H	1 bundle	Laboratory for hardness and solidity	1908-44
	6 pamphlets	Price lists and catalogues	
	3 folders	Correspondence	1940-42
VI R	3 bundles	Laboratory for cogwheels	1936-42
	1 bundle	Price lists, catalogues, books on Physics	
	11 folders	Technical drawings, test records, cogwheel measurements, catalogues	1936-44
VI S	22 bundles	Laboratory for lubrication technique	1890-1944
	5 bundles	Price lists, catalogues, pamphlets	
	4 bundles	Books on Physics	
	26 folders	Electrical constants, laboratory notes and requirements, correspondence	1930-44
VI U	3 bundles	Laboratory for chronometry	1931-45
	9 folders	Correspondence, watch testing, shipping slips	1927-45
	23 bundles	Miscellaneous folders and pamphlets, research works, which cannot be classified with above.	1923-45
	34 folders	Miscellaneous; not classifiable under above. Correspondence with various firms, catalogues, correspondence with German Army; research records	1927-44
	1 folder	Institute rules	1932-43

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LOT: Physikalisch-Technische Rechtsanstalt (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
1 bundle	Accident reports	1924-44
14 bundles	Price lists, pamphlets, technical and physical books, not classifiable under above	

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FILES: not classifiable in above system:

1 file	Pamphlets on Synchronized motors	
3 files	Catalogues of metals	
1 file	Research memoranda	
1 file	Watch catalogues	
1 file	Optical instruments	
1 file	Measuring apparati	
3 card indexes	Ballbearing friction literature	
1 card index	Metal testing	
½ card index	Excerpts of various physical reports	
2 card indexes	Literature on technical lubrication	
2 boxes	non-official correspondence	
3 boxes	Charts, diagrams and statistics, heat tables for thermal equipment	
1 box	Pamphlets on pressure scales	
1 box	Literature on temperature scales	
1 box	Literature on humidity scales	
1 box	Literature on manometers	
4 boxes, labelled 1, 2, 43, 44	On resistance thermometers	
4 boxes numbered 23, 24, 39 & 42	Literature on thermo-elements	
1 box numbered 5	Schemes for resistance thermometers	1932
1 box numbered 7	Schemes for millivolt meters	1934-44
1 box numbered 17	Miscellaneous laboratory tests	1934-45
1 box numbered 16	On the mercurial thermometer	1938-41
5 boxes	On pressure and expansion measurements	
2 boxes	On current laboratory research and tests	1944-45
1 box	Laboratory regulations	
1 box	Correspondence on electrical norms	1942-44
6 boxes	Thermometer tests	1942 & 1944
3 boxes	Records of test requests on thermometers	1941
1 box	Manometer tests	1942-43
1 box	Barometer tests	1928-43
1 box	Hair hygrometer tests	1921-43
1 box	Electro-chemical tests	
1 box	On electricity and thermodynamics, laboratory notes, graphs, curves	1914-42
1 box	X-Ray research, tables and constants	1929-44
1 box	Catalogues on X-Ray apparatus	1932-33

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LOT: Physikalisch-Technische Rechtsanstalt (cont'd)

No (of files, books, pc's etc)	Subject and Author or Originator	Periods covered
2 boxes	Records of tests on electrical elements	1940-43
1 box	Tests of voltometers and galvanometers	1941-44
1 box	Tests on vacuum pump	
3 boxes	Miscellaneous excerpts of physical publications	1897-1945
1 box	Tests on electrical equipment (voltometers, galvanometers, manometers etc)	1940-44
1 box	Tests of electrical resistance on various materials	1942
1 box	Delivery slips and invoices for laboratory equipment	1938-44
2 boxes	Tests of electrical resistance	1938-43
1 steel box	Data on stop watches, high speed cameras, slow motion and movie cameras and various types of film used in the 1936 Olympics; also diagrams and blueprints of the various sporting fields used in the Olympics	1933-37
3 bundles	Testing report recordings of Rockwell number of metals	1944-45
2 bundles	Index cards on technical publications	
1 file cabinet	Correspondence regarding precision apparatus: optical pyrometers, thermometers etc.	1929-43
1 file cabinet	Administrative correspondence of the PTR	1935-41
1 file cabinet	Correspondence regarding chronometry	1939
1 file cabinet	Correspondence regarding the testing of watches	1939-41
1 file cabinet	Miscellaneous correspondence	
1 bookcase, 62 bundles	Laboratory notes on various experiments	

PTR FOLDERS: no dates:

73 folders	Current tests of alternating current laboratory
8 folders	Current machine laboratory tests
12 folders	High frequency laboratory tests
2 folders	Condensator measurement
5 folders	X-ray laboratory information requests and current tests
7 folders	High power current laboratory tests
7 folders	Magnetic laboratory current tests
4 folders	Photo chemical and information laboratory tests
7 folders	Instructions and regulations: Testing office, Ilmenau

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LOT: Physikalisch-Technische Rechtsanstalt (cont'd)

No (of folders, books, doc's etc)	Subject and Author or Originator	Periods covered
10 folders	Fever thermometers	
2 folders	International temperature scales	
1 folder	Hygrometers	
2 folders	Barometers	
5 folders	Manometers	
3 folders	Bureau of Weights and Measures, Zerbst	
3 folders	Pyrometers	
5 folders	Calorymeters	
21 folders	Glass thermometry	
1 folder	Specific heat	
5 folders	Durability meter	
7 folders	Thermo-elements	
4 folders	Heat conductors	
1 folder	Bluefilters	
1 folder	Diary of section IV	
4 folders	Radioactive fluorescence	
37 folders	Photometric tests and research	
15 folders	Applied optics	
17 folders	Miscellaneous	

PUBLICATIONS, and their classification:

Index no.	Title	Periods covered
I	AEG. Mess- und Fernmeldetechnik Collection of technical scientific publications: vols. 1-3	1938-39
II	Archiv für Elektrotechnik	1943-44
	Elektrotechnik und Maschinenbau	1943-45
	Der elektrische Betrieb	1939-41
II W	Schweizerischer Elektrotechnischer Verein Bulletin	1943-45 (incomp)
	Jahresheft des SEV-Bulletin, mit Mitgliederlisten	1937-44
III V	Oel und Kohle	1936-45 (incomp)
VI F	Fertigungstechnik	1943-44 (incomp)
	Werkstatt und Betrieb	1942-43 (incomp)
VI U	Die Uhrmacherkunst	1921-30
	Die Uhrmacherzeitschrift	1943-44
	Die Uhrmacherkunst	1933-43
	Deutsche Uhrmacherzeitung	1943 (inc)
	Nachrichtenblatt für das Uhrmacherhandwerk	1944-45 (incomp)
	Die Uhrmacher-Woche	1942-43 (incomp)

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LOT: Physikalisch-Technische Rechtsanstalt, (cont'd)

No (of files, books, doc's etc)	Subject and Author or Originator	Period covered
	Journal suisse d'Horlogerie et de Bijouterie	1941-44 (incomp)
	Bulletin annuel de la Societe suisse de Chronometrie	1933, 1936-42
	Industrial and Engineering Chemistry	1935-39 (incomp)
	Werkstatts Technik	1923, 1932 (incomp)
	"Die Abnahme", Sonderteil des Anzeigers für Maschinenwesen, Essen	1938-41 & 1943
	Anzeiger für Maschinenwesen, Essen	1944 (incomp)
	Deutsche Mechanikerzeitung	1907, 1909
	Die Messtechnik	1941-44 (incomp)

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Blueprints, drawings and tracings:

Graphic recording machines	1943
Angular measuring apparatus	1945
Automatic recorders	1944
Laboratory plan	May 1939
Drawings of cogwheels	1940
Building plans	
Photographs of testing apparatus	1942
Specifications for caliper measurements	
Drawings of measuring apparatus (11 rolls)	1942-43
Charts showing results of chemical laboratory experiments (2 rolls)	

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XIX CORPS DOCUMENTS CENTER
Camp Dentine

INVENTORY REPORT

9th June 1945

LOT: Blueprints & Parts Lists of Tiger Tanks - Henschel & Sohn, KASSEL.

CLASSIFICATION: Military

AGENCY TO WHICH COLLECTION IS DEEMED OF INTEREST: Ordnance

DETAILED LIST

No. (of files, books, doc's, etc)	Subject and Author or Originator	Periods covered
1 folder	Parts List for Steering Mechanism	1943-44
1 "	" " " Ammo Rack in Tanks	"
1 "	" " " Tiger E Tank	"
1 "	" " " Tiger B Tank	"
1 "	" " " Radio Equipment for Tiger Tanks E, B, & PJT	"
1 "	Parts List for Tiger Tanks	"
1 "	Receipts of Instruction Books for Tiger Tanks	"
1 "	Production Records	1944
2 books	Index of Drawings	
5000 Drawings	Misc. Parts of Tanks, including Parts Changes dated 1945	1943-44

Remarks: Inventory not made by tank experts, but blueprints and original drawings seem fairly complete.

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PH 2789/43

Main

10 July 1945

INVENTORY REPORT

LOT: Lignose Explosive Works, Schönebeck Branch, SCHOENEBECK AN DER ELBE. Present Location: Seventh Army Documents Center, FUERSTENHAGEN, Bldg. No. 5.

CLASSIFICATION: Economic and technical

AGENCIES TO WHOM COLLECTION IS DEEMED OF INTEREST: Ordnance, Engineers, SHAEF, G-2, Economic Division

PREAMBLE: The greater part of the records of this branch of the firm for the past ten years are present. They consist in correspondence both inside the firm on technical matters, problems of labor - particularly forced labor - and priorities, and relations with the party, the government, and the army. The accounts of the branch are here, as well as technical reports, reports of conferences, and papers on suits at law involving labor matters and patent rights.

DETAILED LIST

No. of bundle or case	Description	Period Covered
1 - 59	General correspondence of the Schönebeck branch	1936-1945
60 - 71	Invoice file	1939-1944
72 -79	Teletype messages sent and received	1939-1944
87	Correspondence "Gi Betrieb"	1936-1944
88 - 89	Correspondence on trinitrotoluol business	1934-1944
80 - 83	Correspondence of purchasing department	1938-1944
84 - 86	Delivery tickets	1941-1944
90	Correspondence of the armament department	1936-1945
91 - 92	Correspondence with Siemens, Halske	1936-1944
93	General correspondence with Kruppmühle branch	1941-1944
94 - 95	Correspondence with Sprengstoffs Verkauf Gesellschaft m. b. H.	1938-1944
96 - 97	Orders	1939-1943
98	Business letters	1936-1942
90 - 101	Receipts for filled orders	1937-1942
102-105	Correspondence with the main office concerning armament and munitions.	1941-1944
106-108	Correspondence with the Ministry of War	1939-1945
109	Reports of engineers on factory installations	1939-1941

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LOT: Lignose Explosive Works

No. of bundle or case	Description	Period Covered
110	Correspondence on teller mines	1942-1945
111	Lists and reports - Factory Werkschar	1938-1944
112	Correspondence with the Patent Office in Berlin	
113	Correspondence concerning foreign and PW labor	1942-1944
114	Correspondence concerning export business	1938-1944
115-116	Correspondence with foriegn countries	1936-1941
117-119	Correspondence concerning igniter caps and cords	1940-1943
120	Correspondence with the Verband der Chemischen Industrie	1939-1945
121	Business contracts	
122	Correspondence with the Society of German Chemists	1938-1944
123-124	Reports on condition of factory	1939-44
125-127	Correspondence on explosive materials	1941-1944
128	Correspondence with General Director v. Schröter	1939-43
129	Correspondence concerning former employees	1940-1941
	Correspondence with the General Health Insurence Bureau, Kreis Calbe	1934-1944
	Correspondence with Rüstungsinspection, Magdeburg	
	Minutes of meetings of officials of Lignose with representatives of the government	1943-1944
	Plans for hand grenade fuze assemblies	1944-1945
130	Correspondence on Ammonium nitrate explosives	1940-1941
	Ammonium nitrate explosives requisitions	
131	Correspondence with sales dept. of main office in Berlin	1939
	Papers on firm's labor program and policies	1944-45
	Correspondence with District rearmament Offices at Dessau and Hannover	1940-1942
	Papers on medical care of employees	1940-1944
	Reports of conferences of munitions makers	1936-1944
	Plans for artillery percussion caps	1940-1944
132-135	Vouchers to account for use of rationed materials	1938-1942
134	Conferences with visitors to the plant	1937-1942
	Correspondence with directors of the Four-Year Plan	1939-45
	Correspondence with Association of Chemical Engineers	1936
135	Applications for employment	1941-44
	Invoices from Benzin-Benzol Verband	
	Correspondence with Kruppmühle, Reichenstein, and Berthen Branches	1941-1944
	Correspondence with "Bleiazid" subsidiary	
136	Requisitions for materials	
	Correspondence with Deutsche Babcock & Wilcox Dampfkessel Gesellschft, A.G.	1940-1945
137	Bank statements	1939-1943
	Chemical Abstracting Service - a file	1941-1945
138	Censorship and security rules	1940-1944
	Warehouse reports	1937-1944
	Reports on explosions in the plant	1944-1945
	Accounts on savings of iron by employees	1942-1945
	Correspondence with South America concerning trade marks	1942
	[illegible]	1938-1939

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LOT: Lignose Explosive Works

No. of bundle or case	Description	Period Covered
139	Electrical fuses for explosives	1936-1944
141	Production costs	1941-1942
	Correspondence, bills of lading, and shipping tickets from F.Weber & Co., Berlin	1940-1943
	Technical description of procedure for manufacture of explosives	
142	Correspondence concerning AT mines	1937-1942
	Descriptions and blueprints of igniters	
	Correspondence concerning additions to plant	1939-1940
	Counterespionage, Magdeburg	1940-1945
	Correspondence with Rüstungskommando, Dessau concerning transportation	1942-1945
143	Papers concerning security control	1939-1944
	Production methods, "Chlorotit 2"	1944-1945
	Certificates of quality and production reports	1941-1944
144	Requisitions for metal	1937-1942
	Business correspondence, technical	1942
	Correspondence and reports of Subcommittee D and H, Rüstungsausschuss	1940-1942
	Correspondence with representative of army at the factory	1935-1945
145	Correspondence with Deutsche Solway Werke and Sprengstoff Verkaufs Gesellschaft	1941-1942
	Production methods, Glycerogen	1940
	Letters & drawings concerning production of "S.m.E." long bullet	1942-1943
	-----(same) "S.m.K." tracer	1942-1944
146	Correspondence concerning handgrenades	1936-1944
	Priority allotments of cement and wood for manufacturing purposes	1938-2940
	Correspondence concerning real estate at Hauffstraße 2, Magdeburg	1939-42
	Correspondence with H.Pauling	1945
147	Correspondence with main office in Berlin (accident reports, new methods, research)	1938-1945
148	Daily production record	March 441
	Correspondence with O K H concerning shipping problems	1941-1943
	Metal requisitions	1938
	Studies on protection against corrosion	1936-1938
	Statistics on acid supplies on hand	1940-1941
149	Correspondence with Montanegesellschaft	1938-1945
	Strength-for-rations reports	1945
	Spending-money accounts for Arbeitsdienst employees	
	Accident reports	1941-1945
	Correspondence with the Ministry of Economics	1938-1940
150	Coal bills	1939-1940
	Building cost bids	
151	Raw material requisitions	1938-1941
158	Air raid precautions and factory security	
	Laboratory reports of Dr Wessel	

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LOT: Lignose Explosive Works

No. of bundles or cases	Discription	Period Covered
153	Quicksilver studies	1935-1936
	Ration reports	1939
	New carbon detonating devices	1941-1942
	Industrial accident studies	1943-1944
154	Correspondence with Nitrogen Syndicate	1939-1945
	Insurance policies	
	Confidential reports of the Ministry for armament production	1942-1945
	Decrees of the OKW and Abwehr	1936-1944
	Experiments in "Tetranitromethane"	1936-1939
155	Correspondence on German Four-Year Plan	1937
	Correspondence with the Metal Production Board	1939-1942
	Correspondence concerning the production of sulphuric acid	1936-1937
	Technical delivery requirements, plans and charts	
156	Simplification of procurement requirements	1942-1943
	Receipts for material delivered to army	1945
	Handgrenades, drawings	
	Kitchen accounts	1944-1945
157	Correspondence concerning S-mines	1938-1944
	Reports on sulphuric acid	1934-1936
	Correspondence with the Special committee of the Ministry for armament production	1942-1945
	Correspondence on social security and unemployment insurance	1938-1945
158	Reports on meetings of the production board for powder and explosives	1944-1945
	Correspondence on explosive charges	1942-1944
	Experiments with trinitrotoluol	1926-1930
	Experiments with 'Schneiderite'	1941-
	Other chemical experiments	1939-40
159	Correspondence with Reichs Treuhänder der Arbeit	1941-1944
	Correspondence on "Erfahrungsgemeinschaften"	1940
	Accounts, Gemeinschaftslager Doerstraße	1943
	Papers of special committees	
160	Correspondence with Rüstungskommando, Dessau	1941-1944
	Correspondence with branch at Reichenstein	1938-1945
	Circular letters, announcements, etc	
	Correspondence with the Ministry of munitions	1939-1944
161	Personal correspondence of Direktor dr. Langeloh	1941-
	Papers and correspondence on debts owed the firm	1938-1940
	"PP-Bericht"	1941-1944
162	Production reports TNT Dept	1940-1941
	Plans and figures for pistol cartridges P.P.08	
	Packaging plans for PP08	
	Ground leases and correspondence about them	
	Correspondence concerning patents	
163	Organization	1931-1940
	Ammunition blue-prints	1937-1942
	Production and shipping records	1936-1940
	Machine presses	1937-1940
164	Letters on machinery business	1938-1940
	Correspondence and reports on Nitroglycerine	1935-1937
	Requisitions for metals	1941-1942
	Correspondence on metal rationing	1941-1942
	Correspondence with ministry of armament	1944-1945

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No. of bundles or cases	Description	Period covered
165	Correspondence on on the Werkschar	1939-1944
	Correspondence with Herr Förderstedt	1944-1945
	Technical delivery requirements	1942
	Suggestions for improvements made by employees	1942-1945
	Experiments on T N T	1935-1936
Case No 1	Technical reports (1 folder, 1 book)	
	Technical reports on ballistics (3 folders)	
	Permits for explosives (1 folder)	1942-1943
	Papers on a patent case (3 folders)	1931-1934
	Daily production reports (1 folder)	1945
	War contract priorities (1 folder)	1942-1945
	Air raid precautions and insurence (1 folder)	1944
	Detonation of liquid explosives (1 folder)	1939
	Continuous production of T N T - a report (1 folder)	1940
	Operating costs of Schönebeck branch (1 folder)	1931-1936
	Newest developments in T N T manufacturing - a report (1 folder)	
	Original plans and layout of plant at Schönebeck	1898-1922
	Prussia, laws etc.	
	Prussian mine law (1 book)	1935
	Berufsgenossenschaft chemische Industrie	
	Annual technical conference (1 folder)	1936-1942
	Daily studies on water used by the plant (1 fol.)	1935
	Hearings on T N T manufacturing (1 folder)	1940
	Papers on law suit against Dr Ursum (1 folder)	1930
	Test certificates on detonating caps (2 folders)	
	Miscelaneous experiment reports (1 folder)	
	Procedure for continuous manufacture of Nitroglycerine (1 folder)	1940
	Reports on an explosion at the Krümmel plant (1 folder)	
	Papers on a patent for detonating caps (1 folder)	1932
	----- (same) on time fuses (1 folder)	1933
	Correspondence with local tax assesor (2 folders)	1925-1930
	Letters on Mixture 02 (1 folder)	1933-1934
	Memos to the staff (2 folders)	1933-1940
	Fulfillment of the Treaty of Versailles) (1 folder)	1923
Case No.2	Letters concerning real estate in Schönebeck (1 Folder)	1927
	Correspondence concerning parcel of land at Ahorn strabe 4, Magdeburg (1 folder)	1933
	Newest developments in commercial explosives (1 folder)	
	List of personnel declared physically unfit (1 folder)	
	Index of cost account numbers (1 folder)	
	Building list as of 1 Jan 1944 (1 folder)	
	Explanation of an accounting plan (1 folder)	
	"Schnellaction Kessler" (1 Folder)	
	Transfer of 31 laborers to Moschwick (1 folder)	
	Reports on the effect of an incendiary bomb (1 Folder)	1944
	Plan for award for good work in th pouring dept (1 folder)	
	Papers on the lawsuit against Werner Wronski in the Labor Court (1 folder)	1942
	Circular letters from the Society of Chemical Employers inthe (1 folder)	
	Detonation of liquid explosives through cavitation (1 folder)	1943
	Transfer of German laborers to the Elbia in Liebenau (1 folder)	

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LOT: Lignose Explosive works

No. of bundles or cases	Description	Period covered
Case No. 6 (cont'd)	Papers dealing with patent matters (8 folders)	
	List of machines in the plant at Schnebeck (1 folder)	1945
	Certificates on tests for "Munchungen 02" (1 folder)	1935-1938
	Auditor's report for	1934
	Reports of the Berufsgenossenschaft der chemischen Industrie (3 books)	1924-1926
	Egebrecht, Hans "Clothing for laborers and workers (1 book)	
	Contract between Lignose and the Agricultural testing laboratory of Magdeburg	1934
	Technical blue prints (1 package)	
	Correspondence with the German Labor Front (2 folders)	1942
	Suggestion for a plastic detonating cap (1 folder)	
	Correspondence with Wilhelm Hofmann Maschinenfabrik and with Dinamit A. G. (1 folder)	1942-1944
	Notes on a conversation between a representative of the firm and a representative of the Wehrmacht (1 folder)	
	Plans for an experimental detonating cap (1 folder)	1943

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SEVENTH U.S. ARMY DOCUMENT CENTER
Frankenthagen, Germany

APO 758
10 July 1945

INVENTORY REPORT

LOC: Military Geographic - Sources
Present Location: 7th U.S. Army Library, Documents Center.

CLASSIFICATION: Military

AGENCY TO WHICH COLLECTION is DEEMED OF INTEREST: Corps of Engineers, WD.

HISTORICAL LIST

No. (of files, books, decks, etc.)	Subject and Author or Originator	Periods Covered
1) 1 bundle	Misc. Maps (maneuvers)	
2) 1 "	" " Finland	
3) 1 "	" " Spain-Portugal	
4) 1 "	" " Great Britain	
5) 1 "	" " Turkey	
6) 1 "	" " Scandinavia	
7) 1 "	" " Africa	
8) 1 "	" " Near East	
9) 1 "	" " Holland	
10) 1 "	" " Poland	
11) 1 "	" " Czechoslovakia	
12) 1 "	" " Baltic States	
13) 1 "	" " Balkan countries	
14) 1 "	" " Germany	
15) 1 "	" " France	
16) 1 "	" " Italy	
17) 1 "	" " Russia	
18) 2 "	" " Russia	
19) 1 "	" " Index sheets	
20) 1 Index	Trigonometric Point Index-Western Border district of Germany & adjacent countries	1940
21) 1 manual	Mil.-Geo. description of Sudetenland	1938
22) 1 bundle	Compilation of maps & Mil.-Geo. publications, by countries	1943
23-4) 2 Indexes	Planheft Niederlande	1940/43
25) 1 Index	Town Index of Norway	1940
26) 1 Index	Planheft Balkan	1940

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(LOT: Military Geographic, cont'd)

No. (of files books, docs etc.)		Subject and Author or Originator	Period covered
27)	1 booklet	Instructions for obtaining firing data from maps & trig point indexes in E & SE Europe	
28)	1 Manuscript	Mil.-Geo. Holland	
29)	1 bundle	Data for maps	1940/43
30)	1 booklet	Report on Fall Army Manoeuvres Germany	1932
31)	1 bundle	Town indexes - Saxony & Czechoslovakia	1935
32)	1 Manuscript	Czechoslovakia - Economic relations with Germany	
33)	3 folders	Correspondence concerning mapping data for H.Dv.g.40/88	1937/40
34)	1 Manuscript	Reichs Post Direktion - local communications, district of Leipzig	1937
35)	1 file	Letter log	1940
36)	1 bundle	Correspondence concerning mapping data	1941/44
37)	1 bundle	Data on industry	1938/44
38)	1 bundle	Data on roads, bridges & railroads Germany and Spain	1935/43
39)	1 bundle	Data on waterways	1938/40
40)	1 bundle	Data on public utilities	
41)	1 photo	Air photo of Friedrichshafen	1937
42)	1 pamphlet	Defense against parachutists	1940
43)	1 file	Allgemeine Heeresmitteilungen, OKH	1942/44
44)	1 folder	Marked maps - France 1:80,000	
45)	1 atlas	Mil.-Geo. Atlas Russia	1941

Note: The above inventory is a supplement to inventory report of this Center dated 1 June 45. Lot: Military Geographic Institute Maps, studies and surveys. Source: Hildberg, Schloss Meiningen. (The Center was previously known as the XIX Corps Documents Center.)

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SEVENTH U.S. ARMY DOCUMENT CENTER
Fuerstenhagen, Germany

APO 758
10 July 1945

INVENTORY REPORT

ADD: Wirtschaftliche Forschungsgesellschaft m.b.H., Berlin

CLASSIFICATION: Scientific, Economic.

PRESENT LOCATION: Seventh U.S. Army Document Center, Fuerstenhagen, Germany, Bldg. No. 5.

AGENCY TO WHOM COMMUNICATION IS DEEMED OF INTEREST: .....

RETAINED LIST

No. (of files, boxes, folders etc)	Subject and Author or Originator	Periods covered
1 folder	RLM	
1 folder	Supply Office	
1 folder	Collection of oil and grease	starting June 42
1 folder	Wirtschaftliches Forschungsamt	
1 folder	Deliveries to OKL - Receipts	
1 folder	Requests from OKL or Luftwaffe units	
1 folder	Delivery sheets	
15 folders	Bills of Lading	
2 folders	Copies of outgoing orders, Forschungsamt to RLM & OKL	
5 folders	RLM requests to the Forschungsamt	
6 folders	Notes - Special fuels	
1 folder	Monthly Reports	1938-1940
1 folder	Maps	1938-1942
1 folder	Memoiren	

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LOT: Wirtschaftliche Forschungsgesellschaft m.b.H. (Cont'd)

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods Covered
Case # 203:		
	WIFO-Gasoline production and storage installations	
4 folders	at a. DERBIN	
1 folder	b. NIENBURG	
2 folders	c. HEGELBERG	
2 folders	d. Munchen	
2 folders	e. NEUBURG	
3 folders	f. HITZACKER	
1 folder	g. SMASFURT	
1 folder	Reports of changes instituted by various WIFO testings of gasoline installations (Confidential)	1943
8 folders	Reports on production activities of WIFO's Branch Offices to Central Office, Berlin (Confidential)	1943
1 folder	Work for OKW agencies (Confid.)	
1 folder	Central Office WIFO correspondence with Branch Offices re contracts undertaken	
3 folders	Inventory reports on oil and gasoline available at various Branch Offices	1941/42
2 folders	Purchase of Diesel motors by WIFO Central Office for various Branch Offices from private firms	
1 folder	WIFO Personnel	
25 folders	Blueprints of installations manufactured for WIFO by Schwelm Iron Works	
Case # WK 14: 3 files	Requests of various firms to WIFO (Forderungsnachweis), file 4013 # 1 - 21	
Case # WK 16: 20 folders	Shipping orders 4105, #24000-24403	

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[illegible] (Cont'd)

No. (of files, books, parts etc)	Subject and Author or Originator	Periods covered
Case # [illegible]:		
1 folder	I.G. Farben-Bills	1936/43
1 folder	Scholven A.G. - Correspondence	1939/42
1 folder	Gelsenberg - Correspondence	1940/42
4 folders	I.G. Farben	1942/43
1 folder	I.G. Farben - KYBOL	1941/43
1 folder	Ammoniakwerk - ET 110	1942/43
1 folder	Gelsenberg - Deliverysheets, Bills of Loading	1942/43
1 folder	Nerag	1939/43
Case # KVK 1:		
1 folder	Sales - Daily Reports RLM (confidential)	1941/43
1 folder	RLM Card index A-L	1942/43
1 folder	RLM Card index M-Z	1942/43
1 folder	Card index of gasoline storages	1942/43
3 folders	Copies of delivery orders (Folders: 14, 15, 16)	
1 folder	Bills for special fuels A-C	1941/42
Case # 204:	Blueprints of gasoline storage plants and on results of experiments conducted by WIFO	
Case # KVK 13:		
6 folders (4105)	Shipping orders 35801-40400	
1 folder (4321/2/4)	Bills from Vacuum Oil Co., Prague; Olex-Rhenania; Stock records	
1 folder (712)	Ethyl Fluid - Bills	1940/41

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LOT: Wirtschaftliche Forschungsgesellschaft m.b.H. (Cont'd)

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
2 folders (4000)	Copies of correspondence	1943
Case # MEK 3:		
2 folders (785)	Ethyl fluid shipping orders, Ethyl G.m.b.H.	1941/43
1 folder (785)	Bills, Ethyl G.m.b.H.	1942
1 folder (785)	Correspondence, Ethyl G.m.b.H.	1939/42
1 folder (789)	Credit notes, Ethyl G.m.b.H.	1942
1 folder (789)	Orders pertaining to gasoline for cars, Ethyl G.m.b.H.	1940/43
1 folder (138A)	Correspondence Benzol Verband	1939/42
1 folder (143A)	Correspondence Scholven A.G.	1942/43
1 folder (143B)	Bills of the Scholven A.G.	1939/42
1 folder (143)	Shipping orders Scholven A.G.	1942
1 folder (150A)	Shipping orders, correspondence and bills of Ruhroel GmbH	1942
Case # MWV I.:		
2 folders (838)	Glysantin Antifreeze I.G.Farben, correspondence	
1 folder	D.H.E. contracts	
4 folders (825)	AB & BO Centralbuero-correspondence	
3 folders (825)	AB & BO Centralbuero-bills	
1 folder (2436)	Oil processing	
1 folder (14)	Diesel engines H-Laeger	
1 folder (15)	Diesel engines G-Laeger	
1 folder (720)	Brom	
1 folder (800)	Credits CKH and RIM	
1 folder (Fa190)	Catalogue	
1 folder	Requisitions for plane fuel	

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LOT: Wirtschafts-Aufbau Verwaltungsgesellschaft m.b.H. (Cont'd)

No. (of files, books, docis etc)	Subject and Author or Originator	Periods covered
2 folders (1501K)	Main storage distribution plan (Confidential)	
2 folders	Storage records of branches in France	
1 folder	Army storage stock distribution overlays (Confidential)	
1 folder	Shipping orders RLM (Confidential)	
1 folder (1341)	Tri-Fo Benzol Verband, correspondence and bills	
1 folder (1343)	Delivery-sheets	
1 folder (1481)	Deliveries-Ammoniakwerk Leuna	1938/43
1 folder (1384)	Deliveries-Ammoniakwerk Leuna	1938/43
1 folder (140)	Soboiven A.G. - correspondence	
1 folder (143C)	Soboiven A.G. - delivery sheets	
1 folder (148)	MWD-Poelitz A.G., shipping tickets	
1 folder (1373)	Delivery sheets, FB Gelsenberg	
1 folder (151)	FB Poelitz A.G. - Correspondence	
1 folder (1810)	FB Poelitz A.G. - Delivery sheets	
Case # [illegible]		
1 box	Bookrecords of different WIFO Branch institutes	
Case # [illegible]		
1 folder	Reports on Karpatho-Ukraine	
1 folder	Germans in Poland	
1 folder	Promotions of antisemitic and national socialistic literature	
1 folder	Germans in Bessarabia & Wolhynia	
1 folder	Memoranda concerning different persons in leading positions	

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LOT: Wirtschaftliche Forschungsgesellschaft m.b.H. (Cont'd)

No. (of files, books, docts etc)	Subject and Author or Originator	Periods covered
1 folder	Correspondence of the AO (Organization of the NSDAP abroad)	
1 folder	Correspondence of Stabsleiter Urban	
1 folder	Last Branch reports on Jews in Russia	
1 folder	Publications of Alfred Rosenberg	
1 folder	"Im Kampf" -Correspondence re NS Monatshefte	
1 folder	Misc. reports on eastern problems	
1 folder	Correspondence and handwritten notes of Alfred Rosenberg	
1 folder	Reports on Anti-Komintern	
1 folder	Russian Committee of German Economy	
1 folder	Administration - Misc. Correspondence	
1 folder	Index of books discussing foreign political problems	
1 folder	Correspondence of Stabsleiter Schickedanz	
1 folder	Foreign political school camps	
Cage # 1037		
1 folder	Originals and translations of Italian anti-semitic propaganda publications	
1 folder	Correspondence of the U.S. foreign office	
1 folder	Ukrainian organizations	
1 folder	Mitteruthenian problems	

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LOT: Wirtschaftliche Forschungsgesellschaft m.b.H. (Cont'd)

No. (of files, books, doc's etc)	Subject and Author or Originator	Periods covered
1 folder	Ukrainian problems in General Gouvernement Gestapo investigations and other correspondence	
1 folder	German economic committee for Russian problems	
1 folder	NSAO on Italian problems	
1 folder	Memoranda and notes	
1 folder	Index of Literature on Eastern problems	
1 folder	Circulars and orders by the "Centralamt"	
1 folder	Swiss problems	
1 folder	Publications and datas concerning Ukraine	
1 folder	Regulations and circulars of the NSDAP	
1 folder	Correspondence, publications of the "Ukrainisches Wissentschaftliches Institut in Berlin".	
1 folder	Notes re the zaristic General Biskupsky	
1 folder	Correspondence re Bolshevism	

George F. Graybill
GEORGE F. GRAYBILL
Major, GSC
Asst. G-2.

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Main

SEVENTH U.S. ARMY DOCUMENT CENTER
Fuerstenhagen, Germany

APO 758
11 July 1945

INVENTORY REPORT

LOT: Siemens Schuckert Werke, Berlin-Siemensstadt

CLASSIFICATION: Economical.

PRESENT LOCATION: Seventh U.S. Army Document Center, Fuerstenhagen, Germany, Bldg. No. 4.

AGENCY TO WHOM COLLECTION IS DEEMED OF INTEREST: ----

DETAILED LIST

Case No.	No. (of files, books, CO's etc)	Subject	Periods covered
1		Irrigation projects in Egypt. Irrigation & water power plant projects & blueprints in Finland. Same of Near East & Middle East countries	
2	25 files	Electrical installations at RR crossings, N-Z	
3	1 folder	Blueprints of: Pumping Station Fortuna including office buildings Fortuna smoke stacks etc. Steel works (Hoesch) Electricity works (Guestrow) Power plant (Diergardt) " " (Ferina) " " (Plesse, Contr. Germ) " " Paper factory Baerenwerk Freiluftstation (Open air station) Susigke Power plant Leuna Works, Merseburg.	
3a		Blueprints of power stations and dams of: Dordogua, Drohr Kraftwerk, Djebel & Serad (Afghanistan), Daulen on Duena, Dobers, Doerfheim, Carena (Chile), Condus (Chile), Chita, China, Carlarca, Coughinas (Sardinia), Cross Ocean, Costa-Rica, Cirevenica, Chiriqui, San Cancio, San Carlos, Charlottenburg,	

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LOT: Siemens Schuckert Werke (Cont'd)

Case No.	No(of files, books, doc's etc)	SUBJECT	Periods covered
3a	(Cont'd)	Conbuco, Los Quilos, Chauwilliam, Las Condas, Capdenar, Claux, Chochabamba, Crespo Toral, Cachapoal, Los Chorros Caracas, Chitaria, Coemba, Djebel ul Seredj.	
3b(Allgemeines)	7 albums	Photos of transformer installations, power plants, high tension towers, constructed by Siemens Schuckert in various cities (Index of contents included in each album)	1910/38
	13 folders	Railroad regulations concerning electrical transport	1910/28
	5 folders	Aluminum construction works	1911/35
	1 folder	Reports on electrical experimentation from abroad	1922
	1 folder	Electrical disturbances-experiments	1922
	2 folders	Testing of aluminum armatures	1916/35
	2 folders	Cost estimates of projects	1923
	folders	Experiments on protection against lightning	1920/25
	1 folder	Price Lists - Correspondence	1940/44
	3 folders	Postal regulations	1919
	5 folders	Hanging insulators	1914/29
	2 folders	Iron mastheads & poles	1922
	5 folders	Pole braces	1919/37
	2 folders	Correspondence with other firms	1910/30
	1 folder	Information in re open air power stations	1935/37
	1 folder	Business organization plan	1943
	1 folder	Grounding reports	1941
	1 folder	Safety report	1944
	5 folders	Reports on concrete pole experiments	1942
4		Blueprints of Water Works: Duemmlinghausen, Darkehmen, Dionysen, Doberan, Dhuemn, Dresson, Nemisle(Tuerkey), Millingen, Edersperre on Fulda, Eschwege, Eichberg(County Baylar), Eberlingen, Bad Ems, in Eifel, Embrun, Einsal, Enge Petersdorf, Erfurt, Evergincourt, Eschbach, Elversbagen, Eversum, Elbach, Eichelberg & Co.(Menden), Ehreshoven, Eicken & Co. (on the Eupen), Fritzlar.	
5	17 folders	Blueprints etc.-Building Construction Bureau, Hydroelectric plant, Stettin	
6		Blueprints of power plants in various countries	

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LOT: Siemens Schuckert Werke (Cont'd)

Case No.	No.(of files, books,doc's etc)	Subject	Periods covered
7		Blueprints of power plants of all continents	
8		Blueprints of power plants and dams: Langschede-Wellenbach,Lemberg-Niederhausen,Wettingen,Laschersee Andernach,Limber works in Kamerun, Electrical works Bremen,Ludwigsdorf (Silesia),Jutespinnerei A.Greve-Lindau, Lechbruck,Koasen,Krappitz, Hirschhofen,Kjaardavasdraget.	
10		Blueprints of Water Works: Mukonje (Cameroon),Sicevo(Cameroon), Muko,Mahiper,Manizeles,Massi-i-Scharif,Merckenbach,Meio(Mokia); Mosel (Argency-Uckange): a. Dortmunder Union-United Steel Works-Bridging Section b. Freund-Starckhoffmann,Berlin-Machine factory c. NAV - Bridge supports d. Escher-Wyss & Co. - Turbines e. F.M.Voith - Turbines f. Eisler - Segment structures for bridges; Namslau (Silesia),Mithmann-Hohenlimburg,Penitenciary Nisch (Serbia), Neustadt am Ruebenberge,Nygaardvasdraget (Norway),Naghlu(Afghanistan), Nostheim on Rhume,Neuhaldersleben (Firm:Ludwig Durech),Forderoder (Esthonia), Kraenholm & Narwa, Neheim/Moehne II.	
12		Blueprints of water power works	
13		Blueprints of water works and power plants	
14 (I)		Blueprints of power plants and dams: Natnapure,La Rioza,Untere Roer,Rerkjarik,River Sagina (Cuba),Rheloflux (Ruelska),Rothental,Rio de Janeiro, Neumland,Ramede, Rio Tercero.	
14 (II)		Blueprints of power stations and dams:Sicevo,Seehof,Scheidthausen on the Ruhr,Sullenschin,Sirbach,Soest, Nient,Geschw. Simon-Kirn, Schliepen and Bauern-Laaken,Salzderhelden-Hollenstadt, Sagan,Rybu Buehler	

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LOT: Siemens Schuckert Werke (Cont'd)

Case No.	No. (of files, books, docts etc)	Subject	Periods covered
34 (II)	(Cont'd)	Bogau, P. Lehrfeld, Sweta-Petka, Schoeller f. Bausch, Neu-Kaliss, Serrahn Siwas (Turkey), Schoetmar a/Bega, Sibisihme-Schafa, Stadt Samsun, Salamanca, Schlenke, Sezoun, Sarajevo Zeleznica near Bogatić, Schemschek, Striegau, San Juan, Schimba, Sanwitto, Sepid-Dasht, Sevilla, Santiago, Ue.Z. Suedharz, W.A. Schuchter (Persia), Schwammenauel, Spain, Sorato (Bolivia), Skoplja, Schwarzenstein, Siofoss (Norway), Schirgeswalde, Koenigssee, Koenigssee Schwarzwasserkraft, Rio Cinca, Rio Ara (Spain), Rohleraken, Rosport, Muelheim, Durazmillo, Bolivia, Bad Reinerz, Rheine, Reda a/Ems, Tiflis, Radotki, Rotenburg a/Fulda, Rehbach, Rehbach 48-48, Rimbach, Sorata (Bolivia).	
16 (I)		Blueprints of water works: Sweden at Levesse, Henfurth, Luebbesee, Hillersee, Bad Koesen, Burg, Moth of the Rancerivex (France), Tuerkenbach, Sydow, Draga, Fuerstenau, Fischbachwerk, Alz, Zellertal, Yemen, Yaalbong II.	
16 (II)		Blueprints of power plants: Lech, Auxiliary canal Lech, Drage, Selesch, Chmulef (Ostrolenka), Muidsselm, Upper Moldau, Rossnow, Wickide (near Dortmund), Vienna, Wertha, Dwinjec (Vistula).	
16		Blueprints of German power plants	
22		Blueprints, correspondence, cost estimates on projects on water power plants in: Miederhausen a/Nahe, Dahlhausen, Braunswalde, Mecklenburg, Ruedesheim, Wega-Mandern, Landshut, Angenbach, Gippermueble, Neusiedler-See, Rio Negro, Guillestre and Emsrun, Sechwege, Elverlingen Raspart, China, Iceland, Afghanistan, Latvia, Chile. Projects on the utilization of the water power of the rivers Lech, Isar and the Upper Inn.	

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LOT: Siemens Schuckert Werke (Cont'd)

Case No	No. (of files, books, doc's etc)	Subject	Periods covered
24	1 set folders	Rebuilding of water power works Lechbruck	1939/40
	1 set folders	1er step dam - Alz	
	2 set folders	Hydro-electric plant Bring	
	1 set folders	Correspondance re "Power plant Lower Salzbach"	
	6 studies	Plans for the construction of power plants along the Narowa	
	1 set folders	Power plants projects in Iran	
	1 binder	Water power installation Waxdorf	
	4 volumes	Power plant "Bring"	
	2 volumes	Power plant "Karobi"	
	1 volume	Power plant "Maghiu"	
	2 volumes	Power plant "Havel"	
	1 volume	Power plant - Firm Oestermann	
	1 binder	Water power installation "Osa"	
	1 binder	Water power plant "Glockau" & " Venediger "	
	1 binder	Hydro-electric plant "Rossnow"	
	20 files	Blueprints Pumping works "Bringhausen" with its installations	
		Blueprints of water works together with estimates on projects: Sweden and Norway, Danube-Aschach (Construction by OT "Viking"), Inn Project-Eastern Tyrol, Inno Project (Austria), Wadang & Braunswalde (Allenstein), Poland, Switzerland, Slovakia, Spain, Ulm(Upper Danube), Volkerwerk-Lavamund, Lithuania, Finland, Russia, Aggerepo(Norway) with maps and aerial photos, Estate Fuerstenau, Muehltal, Austrian SS Works-Vienna.	
		Misc. water power projects, mostly unfinished or never started	
		Drawings and construction plans of project "Rio Negro Water Works"	
		Blueprints and specifications of power projects in Rio Negro.	
		Blueprints and specifications on the Osa power plant (Norway). Booklets and leaflets on turbines.	

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LOT: Siemens Schuckert Werke (Cont'd)

Case No.	No. (of files, books, doc's etc)	Subject	Periods covered
76	8 packages	Prospekt of various turbine & hydro-electric machinery plants. Various technical reference books.	
83A		Blueprints of water power plants	
88		Blueprints of water power plants	
89		Blueprints, correspondence, contracts concerning projects of water power plants	
114		Blueprints of electrical railroad installations	
220) 1) 2) 76)		Electric systems in different theatres.	

REMARK: The missing cases were apparently dispersed to another dispersal point and are still being sought.

George F. Kimmitt
GIORGE F. GRAYBILL
Major, GSC
Asst. G-2.

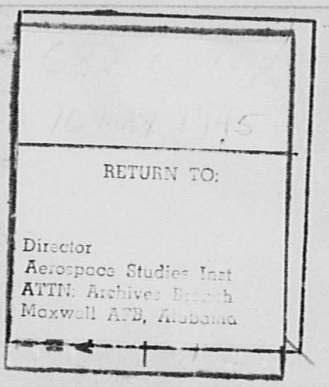
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E. C. VON LATSCHER-LATKA

WIEN IV.
WOHLLEBENGASSE 10
TEL. U-41-0-34

WIEN IV.
WIEDNER HAUPTSTR. 46
TEL. B-27-0-01, A-32-0-04

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HEADQUARTERS
106th Cavalry Group(Mecz)
APO 758 U S Army

16 May 1945

SUBJECT: New German Plane Development.

TO : Commanding General, XV Corps, APO 436, U. S. Army.

1. Herewith are photographs and general explanation of new German airplane development turned into this headquarters by a Doctor Lippisch, who apparently wishes to offer his proffessional services as an airplane designer to the Allied Forces.

2. It is believed these new developments are of extreme importance to the AIR FORCES since they involve new design in Jet Propelled Planes.

3. Doctor Lippisch can be reached by contacting this headquarters.

For the Group Commander:

Director Aeronautics Intelligence Branch Air Technical Service Command Wright Field, Dayton, Ohio
RETURN TO:
16 MAY 1945
082.051

KELTON S. DAVIS
Lt.Col., Cavalry

1st Ind.

HEADQUARTERS XV CORPS, Office of the A. C. of S., G-2, APO 436, U S Army, 17 May 1945

TO: A. C. of S., G-2, Seventh Army, APO 758, U S Army

Forwarded for your information.

for the A. C. of S., G-2:

Eddie L. Howery
EDDIE L. HOWERY
Major Infantry
Asst. A. C. of S., G-2

Incl.
Interrogation Report w/letter
Report by Mayor ofIschl
Misc photos, Jet-planes

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HEADQUARTERS XV CORPS, G-2 SECTION

16 May 45

Interrogation Report.

Dr. Alexander LIPPISCH, the designer of tailless airplanes and the jet propelled plane, reported to this headquarters on 16 May 45. He submitted the enclosed letter.

The adress of Dr. LIPPISCH is Central Hotel
S t r o b l , near BAD ISCHL.

One of his coworkers E.C. von LATSCHER-LATKA is living in SALZBURG-ITZLING, Rauchenbichlerstr. 5 and can be reached under telephone No 60361.

Henry H. Bauer
S/Sgt.

Encl.
1 letter

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DR. ALEXANDER LIPPISCH

Strobl, May 16th 1945
Ischl, den

Information directed to the American Authorities of the town of Salzburg.

At the time beeing Doctor Alexander L i p p i s c h and his staff are staying in Pfandl and Strobl. Since 1931 Doctor Lippisch has been Associate Fellow of the Royal Aeronautical Society (A.F.R.Ae.S.) in London. He wishes to get into touch with his friends in America and England with the purpose of realization and further development of his research-work.

Doctor Lippisch is well known as the designer of all-wing--planes (tailless aeroplanes) and developed as cooperator of professor M e s s e r s c h m i t t the nigh-speed--planes with rocket-propulsion especially the Me 163. In 1941 this plane flew for the first time more than 620 miles per hour (1000 km/h) and reached a rising-performance of 32800 feet (10 000m) within 2 minutes.

Of late Dr. Lippisch was about to develop planes for the flight in the super-sound-region. The investigations referring to this subject as well as researches concerning yet-propulsion-engines have been brought to an end.

Before the City of Vienna was taken possession by the Russian army, the scientific material and reports were removed to the Salzkammergut and deposited there.

Among this is the film and photos of Me 163 and also the designs of the Me 163 B .

By announcements of English broadcasting stations, Dr.Lippisch was informed that the English as well as the Americans are interested in the researches to be carried on. Dr. Lippisch is ready to agree to this request and to treat with the

American authorities on this subject.

At the time Dr. Lippisch is staying at the Grand Hotel in Strobl near Bad Ischl and may be reached by the University of Vienna (University of Vienna,Grand Hotel,Strobl.)

By the mayor of the town of Ischl the american commander of Ischl was informated about this subjekt.Following to this the commander of Ischl informated the commander of Strobl about this subjekt with a letter of him.Captain Beweker gave

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the permission to row to Salzburg and to go in tuch with american authorities stationated there.

Dr. Lippisch prayes the commander of Salzburg as follows:

1. Assembly of all scientific and technical material to be able to continue the research work, under protection of the USA Army.

2. Advisory of a place where the necessary material and also the ingeneers and the technical personal could be assemled.

3. Authorization to go by car to Gmunden, Ischl, Strobl, Mondsee, Salzburg, Prien and Kronach where the mentioned material is stationated at present.

4. Information to the commander of Ischl and Strobl about the decision taken by the commander of Salzburg.

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DR. ALEXANDER LIPPISCH

Strobl Wien den 11.5.45

Mitteilung an die amerikanische Kommandantur über den Bürgermeister der Stadt Ischl.

In Pfandl und Strobl befindet sich Dr. Alexander Lippisch mit dem Stab seiner engeren Mitarbeiter. Dr. Lippisch ist seit 1931 Associated Fellow der Royal Aeronautical Society (AFRAeS) und hat den Wunsch mit seinen Freunden in America und England zum Zwecke der Auswertung und Weiterführung seiner Arbeiten in Verbindung zu treten. Dr. Lippisch ist bekannt als der Konstrukteur der Nurflügelflugzeuge und hat als Mitarbeiter von Prof. Messerschmitt die Hochgeschwindigkeitsflugzeuge mit Raketenantrieb entwickelt, insbesondere die Me 163, mit der 1941 erstmals mehr als 1000 km/h geflogen und eine Steigleistung von 10.000 m in 2 Min erreicht wurde.
Dr. Lippisch war zur Zeit daran tätig, Flugzeuge für den Flug im Ueberschallbereich zu entwickeln, wofür Versuchsergebnisse und Triebwerksuntersuchungen bereits vorliegen.
Das wissenschaftliche Material und Berichte wurden vor der Einnahme der Stadt Wien durch die Russische Armee in das Salzkammergut verlagert und sichergestellt.
Es ist Dr. Lippisch durch Mitteilungen englischer Sender bekannt geworden, dass von anglo-amerikanischer Seite die Weiterführung seiner Arbeiten erwünscht ist. Dr. Lippisch ist bereit, diesem Wunsche stattzugeben und bittet Verhandlungen über diese Weiterarbeit aufnehmen

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zu dürfen.(Dr. Lippisch wohnt zur Zeit im Grand Hotel in Strobl bei Bad Ischl und ist über die Technische Hochschule Wien - Grand Hotel Strobl - zu erreichen.)

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To the

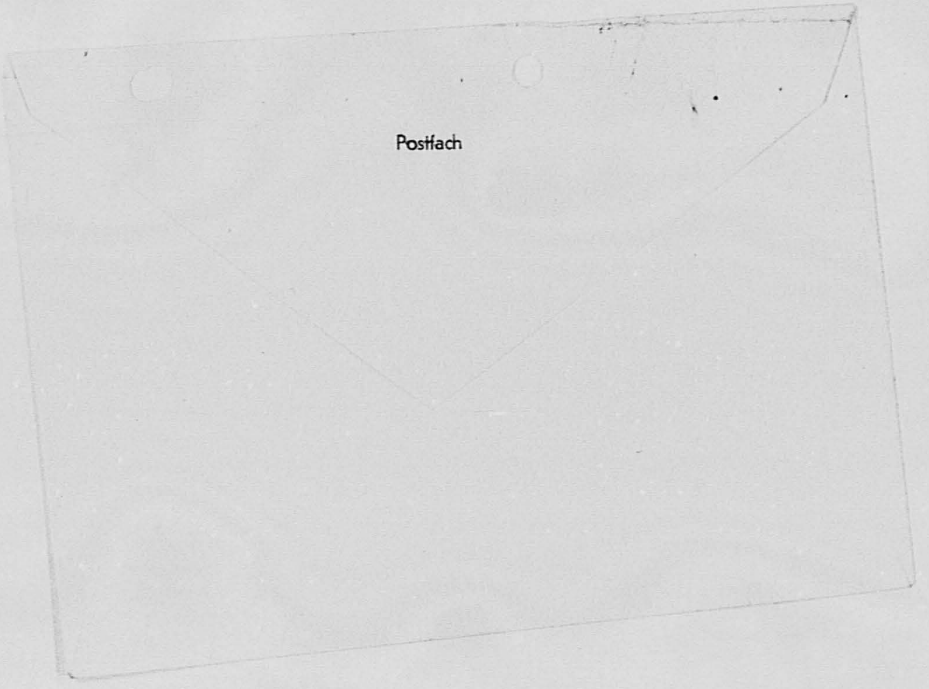
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DR. ALEXANDER LIPPISCH

Strobl, Wien, den 11.5.45

Herrn
Bürgermeister F a h r n e r
I s c h l

Sehr geehrter Herr Bürgermeister !

Herr Dipl.Ing. Schauberger war so freundlich, die Verbindung zwischen Ihnen, sehr geehrter Herr Bürgermeister, und mir herzustellen. Ich benutze die Gelegenheit, um Ihnen eine Mitteilung über meine Person und Tätigkeit zukommen zu lassen. Es hat mich besonders gefreut, von Herrn Ing. Schauberger zu hören, dass Sie sich die Mühe machen wollen, diese Mitteilung an das Amerikanische Generalkommando weiterzugeben.
Ich möchte nicht verfehlen, Ihnen für Ihre Bereitwilligkeit meinen aufrichtigen Dank zu sagen.

Mit vorzüglicher Hochachtung

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Weibliche Personen.

1)	Bales,	Juliane,	Stenotypistin, ledig
2)	Bell,	Hilde,	nicht werksangehörig. Begleitung, Verlobter Langenberg
3)	Dahlke	Edith,	Ehefrau v. Dahlke, Kurt (Küchenchef)
4)	Deul,	Gertrud,	Sekretärin, ledig.
5)	Diedrich,	Ilse,	Stenotypistin, ledig.
6)	Drawe,	Charlotte,	Stenotypistin, Gattin v. Drawe, Gerhard, Techn.
7)	Finzel,	Brigitte,	Ehefrau v. Finzel, Johannes
8)	Groth,	Martha,	Stenotypistin, ledig.
9)	Haschke,	Brigitte,	Ehefrau v. Dipl-Ing. Rudolf Haschke.
10)	Herms,	Margot,	Stenotypistin, Ehefrau v. Ing. Rudolf Herms.
11)	Jahn,	Doris,	technische Zeichnerin, verh. Gatte nicht hier.
12)	Karger,	Martha,	Spulenwicklerin, ohne Anhang.
13)	Klenk,	Margot,	Ehefrau des Konstr. Wilfried Klenk.
14)	Kloß,	Ruth,	~~Stenotypistin,~~ ledig. ~~Ausgeschieden~~
15)	Kluglich,	Ingeborg,	Stenotypistin, ledig.
16)	Knaack,	Erna,	~~Stenotypistin,~~ Wwe. ~~Ausgeschieden~~
17)	Knauer,	Ruth,	Stenotypistin, Ehefrau des Ing. Otto Knauer.
18)	Koster,	Else,	Küchenhilfe, ledig.
19)	Kretschmar,	Lisbeth,	Ehefrau des Ing. Gerhard Kretschmar.
20)	Kruger,	Charlotte,	Sekretärin, ledig.
21)	Kuchen,	Waltraut,	Ehefrau des Dipl.-Ing. Kuchen.
22)	Obstfeld,	Giesela,	technische Zeichnerin, ledig.
23)	Pilz,	Hildegard,	Ehefrau des Dipl-ing. Pilz.
24)	Pilz,	Birbel,	Kind.
25)	Pilz,	Michael,	Kind.
26)	Prysucha,	Elisabeth,	Stenotypistin, ledig
27)	Schmidt,	Erna,	Ehefrau von Schmidt, Johannes.
28)	Schmidt,	Ewald,	Kind von 27).
29)	Schmidt,	Sally,	Tochter von 27) ledig.
30)	Schmidt,	Marie,	Technische Rechnerin, ledig
31)	Schmurr,	Ilse,	Spulenwicklerin, ledig
32)	Schulz,	Eva-Charlotte,	Stenotypistin, ledig
33)	Schulz,	Martha,	Stenotypistin, nicht werksangehörig)
34)	Spahn,	Ruth,	Stenotypistin, ledig
35)	Tessmann,	Ilse,	Stenotypistin, Ehefrau von Obering. Tessmann.
36)	Trumpf,	Anneliese,	Stenotypistin, nicht werksangehörig
37)	Werne burg,	Margot,	Sekretärin, ledig
38)	Wieser,	Anni,	Stenotypistin, Ehefrau des Dipl-Ing. Wieser
39)	Zoike,	Erika,	Ehefrau des Ing. Helmuth Zoike.
40)	Zoike,	Barbara,	Kind von 39)
41)	Zoike,	Beate,	Kind von 39)
42)	Schütz,	Christa,	Angestellte, ohne Anhang.
43)	Slenzka,	Erna,	Angestellte, ohne Anhang.
44)	Cobben	Hannes	Techn. Zeichnerin, ledig.

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Antiaircraft Artillery Report for Operation "Dragoon"

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ANTIAIRCRAFT ARTILLERY REPORT FOR OPERATION "DRAGOON"

I Army Plan

1. Operation DRAGOON -- to establish a beachhead in Southern France to use as a base for capturing the ports of Toulon and Marseilles and subsequently to exploit north towards Lyon and Vichy.

2. The Seventh U.S. Army, to be supported by MAAF and Allied Navies and composed of the following units was assigned the mission of planning and executing Operation "DRAGOON" subsequent to Operation "OVERLORD" (Northern France):

a. VI US Corps composed of:

3rd US Inf Division
36th US Inf Division
45th US Inf Division
1st US Special Service Force
French Groupe de Commandos (2 Bns)
Combat Command, 1st French Armored Division
Supporting Troops

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b. French Armee "B" composed of:

Two French Corps
Five French Inf Divisions
Two French Armored Divisions
Supporting Troops

c. 1st Airborne Task Force composed of:

One British Parachute Brigade
One French Parachute Regt
One US Parachute Regt
Two US Parachute Bns
One US Glider Bn

3. The main assault was assigned to the VI US Corps as shown in paragraph I, 2 a above, supported by Air and Navy.

II Army Antiaircraft Plan

1. After a careful study of the Army plan, Air Plan, Navy plan, and enemy air capabilities, the following scales of AA defense were selected.

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	Gun Bns	AW Bns	SP Bns	S/L Bns	BB Btrys
Minor Ports	1	1			1/3
Major Ports	3	2		1	1
Airfields	1/2	1/2			
Bridges		1/4			1/6
Divisions			1		
Corps	2	2			

Based on the above scales, the total AA requirements were:

	US	FRENCH	TOTAL
Brigade Hq	4	0	4
Group Hq	12	0	12
Gun Bns	17	7	24
AW Bns	20	20	40
SP Bns	3	0	3
S/L Bns	2	0	2
BB Btries	3	0	3

Brigades -- a. One with VI US Corps.

b. One with French Armee "B".

c. Two with Seventh Army to command all AAA in rear of the rear boundaries of VI Corps and Armee "B".

SP & AW Bns -- Each US Inf Division has one SP Bn and each French Division has one Organic AW Bn.

French -- The French do not have any Brigades or Groups but each Division and Corps does have an AA Special Staff Section which commands all AA assigned or attached to that formation.

III Preparation and Organization of Assault AAA

1. All the AA units selected to accompany the assault forces and initial follow-ups were relieved of operational missions in Italy and Sicily and moved to the Salerno Invasion Training Center for a short period of intensive amphibious training with divisions and reequipping prior to actual embarkation from Naples and Taranto.

The organization of AA for the assault was:

VI Corps -- D Day

35 AAA Brigade
108 AAA Gun Bn
433 AAA AW Bn
451 AAA AW Bn

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3rd Inf Division D-Day	36th Inf Division D-Day	45th Inf Division D-Day
5 AAA Group	68 AAA Group	105 AAA Group
441 AAA AW Bn (SP)	443 AAA AW Bn (SP)	106 AAA AW Bn (SP)
72 AAA Gun Bn	68 AAA Gun Bn	216 AAA Gun Bn
534 AAA AW Bn	895 AAA AW Bn	107 AAA AW Bn
104 AAA BB Btry	102 AAA BB Btry	103 AAA BB Btry

2. Due to limited shipping, two Corps AW Batteries and the AW Bn with the 45th Division were not loaded on the assault convoy.

3. In order to provide Armee "B" with command echelons and to supplement their AA, the following US units were attached and arrived in the target area over secured beaches on D/ 1:

34 AAA Brigade
80 AAA Group
62 AAA Gun Bn *
893 AAA AW Bn

* Two batteries were not loaded, thru error.

4. All AA follow-ups to the assault area other than that listed in paragraphs 2 and 4 above were mounted from Italy, Africa, Corsica and Sardinia.

IV Assault Phase

1. The AAA with each division went ashore in the following order of priority: (H-Hours was 0800 15 August 1944)

a. SP Bn -- one battery with each RCT and one with Div Reserve. All SP's initially went into position on the beaches.

b. BB Btry -- one platoon (15 balloons) with each RCT. The inflated balloons with hand winches were walked ashore from LCT's by three men each.

c. Group Hqs -- Coordination of all AA in the Division Sector.

d. Gun Bn -- Each battery proceeded to pre-selected positions based on study of maps, aerial photographs and models, thus giving a coordinated gun defense coverage of the entire Corps assault area.

e. AW Bns -- General beach defense in order to relieve the SP's to move forward with Division artillery and Infantry elements.

2. The Gun Bn and two AW Bns operating directly under VI Corps were divided over the entire Corps sector in order to thicken the initial defense and also add to the depth.

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3. By the night of D Day the following AA was in position and operational:

12 SP Batteries
14 Gun Batteries
14 AW Batteries
90 Barrage Balloons

4. On D ≠ 1 French Armee "B" began unloading the following AA over newly secured beaches west of the assault area:

34 AAA Brigade
80 AAA Group
62 AAA Gun Bn - 2 Btries
893 AAA AW Bn
21 AAA AW Bn (French Div Organic)
37 AAA AW Bn (French Div Organic)

V Build-up of AA to D ≠ 10

1. After the assault lift the build-up was as follows:

213 AAA Group	D ≠ 8
31 AAA Brigade	D ≠ 10
112 AAA Gun Bn	D ≠ 10
36 AAA AW Bn (French)	D ≠ 10
11 AAA Gun Bn (French)	D ≠ 10

By D ≠ 10 the following AA had landed:

	US	FRENCH	TOTAL
Brigade Hqs	3	0	3
Group Hqs	5	0	5
Gun Bns	6	1	7
AW Bns	5	3	8
SP Bns	3	0	3
BB Btries	3	0	3

VI Change in Responsibilities

Due to the rapid advance inland it was necessary to relieve the CG VI Corps from AA defense of the beaches, minor ports and airfields on D ≠ 5. The 68 and 105 AAA Groups with the required units were relieved from attached to VI Corps on D ≠ 5, placed directly under Army for operational control and assigned the mission of AA defense of all vulnerable points in rear of the rear boundary of VI Corps and Armee "B". On D ≠ 10 the 31st AAA Brigade arrived and was assigned the AA defense responsibility of all beaches and ports and bridges in rear areas and of all airfields vice the 68 and 105 AAA Groups relieved.

VII Radar

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1. Planning Stage

a. Because of the excellent state of training and combat efficiency of Radar personnel in Gun Bns considered for the assault phase, efforts of the planning section were directed largely towards equipping all units with the fifth SCR 584 and a full complement of RC-184's, attachment and supply of Signal Radar Maintenance Teams, and providing battalions with at least a thirty-day supply of all maintenance items. Radar operational plans were left to the discretion of AAA Brigades because of their past experience, but all plans were carefully coordinated.

2. Remarks

a. SCR-584's and 545's landed during the assault phase again proved their value as easily handled, dependable equipment. They were moved into position; and, have since D ≠ 1, operated continuously without unforseen maintenance difficulties. No critical items of supply have developed due to the completeness of the Battalion Maintenance Kit, ME-104, carried in the assault by all Gun Bns. The fifth SCR-584, authorized for Hq Btrys of AAA gun Bns, proved of great value as an early warning set when units became widely separated. Signal Radar Maintenance Teams were attached to Brigade Headquarters and functioned under the Brigade Radar Officer, they were, in general, landed with the first echelon of the AAOD. Changes in priority caused some teams to be lifted with follow-up echelons. The use of IFF became confusing as the operation progressed due to many elements of the AAF removing Transponders from various types of A/C.

VIII Early Warning.

1. Planning Stage:

a. The Early Warning System planned for the assault phase of operation "DRAGOON" was divided roughly into three parts: the time immediately before and during the assault, D Day to D ≠ 2 and D ≠ 2 onward:

b. For the assault period, a fighter director ship, and one alternate, was organized to act as an SOR afloat. AA Liaison Officers were to pass Early Warning direct to gun and AW Batteries and S.P. sites in "CHATTER" broadcast form (i.e. Target locations w/reference to known points, broadcast in the clear in very much the same way that football play by play broadcasts are made).

c. For the D to D ≠ 2 phase the F.D. ship was to switch to MAFOG coordinates and pass Early Warning to AACR's expected to be in operation by dusk of D Day.

d. For the last period, the F.D. ships were to be replaced by SOR's ashore which would carry on the normal Early Warning functions. SOR's were to be operational by D ≠ 2.

2. Remarks:

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a.. The "CHATTER" broadcast system of Early Warning was found to be very satisfactory and was kept in use after AACR's were operational because not all units could join AACR nets due to the distances involved.

b. The SCR's afloat were kept in operation longer than was expected because of technical difficulties involved in setting up the SCR ashore. SCR ashore did not become operational until D + 8.

c. Brigade and Group radio equipment was found to be inadequate for the large areas involved.

* * * * * * * * * * * * * * * * * *

/s/ Paul B. Kelly,
PAUL B. KELLY
Brigadier General, U.S.A.
Antiaircraft Officer

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ANNEX NO.___(CORRECTED)

TO_____OUTLINE PLAN

FINAL ANTIAIRCRAFT ARTILLERY OUTLINE PLAN

Section I	General
Section II	D to D plus 5
Section III	D plus 5 to D plus 10
Section IV	D plus 10 to D plus 40
Section V	D plus 40 et seq.

AAA OUTLINE PLAN

1. a. The following outline plan of AA defense for Operation --- is published for information and guidance of all concerned.

* *

2. This plan is divided into five sections: The first section deals with general subjects, the other four deal with the four phases of the Operation divided by the dates, D to D plus 5, D plus 5 to D plus 10, D plus 10 to D plus 40, D plus 40 et seq. These dates represent the times at which AAA will be subject to regrouping, and at which time changes in AA defense responsibilities will be made.

3. a. Responsibility for AA Defense of Mounting ports, including --- and ---, rests with AFHQ. Where practicable, existing defense will be increased by employment of --- Army AAA prior to embarkation. Responsibility for AA defense in the target area will be delegated to subordinate units on an area basis. For Corps these areas will be defined by Corps boundaries. For areas in rear of US Corps and Army Boundaries the responsibility will be assigned to AAA Brigades, operating directly under ----- Army Control. Exceptions, as in the case of a major port or airfield within Corps or Army --- Areas, will be specifically mentioned in ----- Army orders in each such case.

b. The responsibility for Antiaircraft protection of beach installations initially rests with the Sub-Task Force Commander, and thereafter successively with the Corps and Army Commanders. Each Commander is provided with appropriate AAA command echelons.

c. Coordination of AAA with Beach Groups will be by direct contact between the Beach Group Commander and the AAA Commander furnishing protection on the respective Group beaches.

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4. Troops AAA.

a. U. S.

4 Brigades Hq & Hq Batteries.
4 AA Operations Room (AAOR) Platoons.
12 Groups Hq & Hq Batteries
8 Mobile Gun Battalions (90mm)
9 Semi-mobile Gun Battalion (90mm)
3 Self-propelled (SP) Automatic Weapons Battalions (37mm)
14 Mobile Automatic Weapons Battalions (40mm)
6 Semi-mobile Automatic Weapons Battalions (40mm)
2 Semi-mobile Searchlight (S/L) Battalions
3 Very Low Altitude (VLA) Barrage Balloon Batteries.

b. French.

13 Mobile Automatic Weapons Battalions (7 Organic in French Div
5 Mobile Automatic Weapons Battalions (French Air Force)
5 Mobile Gun Battalions
2 Semi-mobile Gun Battalions

5. Air Warning Service.

a. TAC will provide early Air Warning Service afloat and ashore, and surface vessel warning ashore. Afloat there will be three ships fitted as fighter control ships, each with a JOR, two of these being stand-by controls in the event of the loss or damage to the first. The Antiaircraft Officer, --- Army will provide two AA officers for each JOR. These officers are the AA Liaison Officers and are the representatives of the AAO, --- Army. The AALO will pass information obtained from the control board, to the AAOR, such information to be:

Early warning of the approach of hostile or unidentified A/C. Warning to include:

(1) Plot number.
(2) Coordinates.
(3) Number of Planes.
(4) Altitude.
(5) Direction of flight.

During the first phase of the operation, location of plots will be given in the clear and according to geographical areas, i.e., towns, roads, rivers, beach areas, etc., the reason for this method rather than MAFOG coordinates being that AA units receiving the information will be SP (Self-propelled), AW's (Automatic Weapons) and gun fire units not equipped to transport MAFOG coordinates to Army Grid.

Upon the AAOR becoming operational, which is expected by dusk of D Day plots emanating from the JOR will be given in MAFOG. The AAOR

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will contact the AALO at the JOR requesting him to tell all sites to change to the AAOR frequency by broadcasting "All sites change to ----". The AAOR may request the AALO to "Continue minimum chatter" indicating that one or more fire units have not come into the AAOR link. The AAOR will request termination of the chatter broadcast when the link is complete.

Communication:- Two radio channels from each JOR are provided. One HF (two way 50 Watt set), on ---KC (alternate ---KC) frequency for communications with the AAOR and one FM set on ---MC for transmitting only to the SP units. The two transmitters will be linked together through a single mike, providing a simultaneous early warning broadcast on the two frequencies. The FM set is to be monitored only by the SP AA units.

The call name "---" will be used between the AALO and the AAOR, --- by AAOR and --- 1, 2, or 3 by the respective AALO's.

The frequency of ---KC with ---KC as an alternate may be used. The change will be effected by the code words "---" and "---" for ---KC.

The AALO may use the code word "---" signifying that friendly A/C are in the vicinity of the plotted flight and that AAA must institute positive recognition to avoid engaging friendly A/C. It does not restrict AA from firing.

The code word "---" will follow any unidentified plot that turns friendly.

When the SOR is operational on shore and communications have been established between the SOR and AAOR the AALO at the SOR will relieve the AALO's at the JOR using the same frequencies, ---KC (---KC alternate). When the second SOR is set up ashore it will use ---KC with ---KC alternate.

These two latter frequencies will not be used under any circumstances prior to D plus 5.

b. Navy Air Raid Warnings.

(1) The following signals will be broadcast by the Naval Commander in the flagship:

ALERT	WHISTLE	FLAG HOIST	W/T or R/T	MEANING
Red	A series of short blasts	Red	Red	Air attack Imminent
Yellow	3 Short Blasts - Pause -	Yellow	Yellow	Air Attack Expected
All Clear	1 Long Blast	Haul Down	White	Raiders Passed

(2) The above signals may be broadcast by the fighter director ship when so delegated by the Naval Commander.

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(3) Ships are cautioned that the enemy may announce air alerts by radio key and voice. Alerts received by key and voice should be checked with the corresponding visual and sound signals.

6. AAAIS.

Within all units, AAAIS will be established in every practicable situation. Responsibility for coordination of AAAIS rests on each AAA Commander. In rear areas AAAIS will be tied in to the AWS through the AAOR's. In forward areas every reasonable effort will be made to maintain contact with the nearest Air Force SCR.

7. Communication.

a. Wire communications will be considered normal, will be installed whenever circumstances permit, and adequate maintenance will be continuous.

b. Radio communication, although secondary to wire, will be the only means available in many cases. All sets will be calibrated accurately prior to the operation, adequate personnel trained, and waterproofing, where necessary, carefully carried out. Every reasonable precaution will be taken to prevent damage to sets in transit. All radio nets will be periodically tested except where secrecy requirements prohibit it.

c. Wire lines from SCR to AACR are a responsibility of the Air Forces. However, this principle must not operate to delay installation of repair of such lines by the AAA in the event the Air Forces do not install or maintain them.

8. Passive Air Defense.

a. Where an SCR is in operation, the Air Force Controller orders civilian air raid alerts. Otherwise this is a responsibility of the AA Defense Commander. Where a PAD Control Center is in operation the PAD Controller effects air raid alert warnings to civilians and military personnel not engaged in active air defense, upon notification of an alert by the Air Force Controller or the AA Defense Commander.

b. For unit requirements, see PAD instructions.

9. Rules for AAA Fire.

Published in AFHQ Operation Memorandum Number 61, dated 22 July 44.

10. Smoke.

a. DEFINITION OF SMOKE SCREENS.

(1) Area Smoke Screening is to screen combat areas against ground observations.

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(2) AA Smoke Screening is to screen ground targets and ports against air attack.

b. TECHNICAL ASSISTANCE.

The AA Defense Commander is authorized to deal directly with the Chemical Officer of Base Sections concerned for any technical assistance in planning or operating smoke lay-outs.

c. Making smoke on the water is a Navy function. Ordering the making of smoke on the beaches and in small ports is a function of the Beach Group Commander; in large ports it is a function of the AA Defense Commander. Beach Group and AA Defense Commanders require concurrence of the Navy and Air Force to make smoke wherever their interests are concerned.

d. Smoke troops are provided as follows:

(Omitted on this copy)

11. Balloons.

Balloons are provided as follows:

a. Three US BB Batteries for the three US divisions, for use on beaches, and subsequent employment in ports and bridges.

b. For Merchant and Personnel Ships (179): 360 balloons and gas generating chemicals and equipment for their installation. Contingent on receipt of this equipment, the RAF has agreed to accept responsibility for placing balloons on these ships in the embarkation ports, using the servicing facilities they already have in those ports.

c. For servicing these floating balloons in the assault area the Navy is providing craft and the RAF is providing personnel, supplies and equipment.

d. All servicing in each of the major ports in the target area will be the responsibility of the Barrage Balloon Battery in that port. The Navy has agreed to furnish a suitable boat in each port for this purpose.

e. For further details see Par 21, Section II.

12. Additional Roles.

a. Seacoast. No personnel or armament for a purely Coast Defense Role is being set up. All AAA units emplaced along the coast will site certain weapons for dual AA-CD role. The AADC will coordinate all Coast Defense plans with the local Naval Commander.

b. Anti-Tank. Except in emergency, AAA weapons are not sited

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primarily for AT defense. However, wherever a mechanized threat exists, and particularly in the beachhead in its early stages, certain weapons will be sited for dual AA-AT firing, and all AA weapons will be prepared to fire at mechanized targets of opportunity.

c. Field Artillery. AAA guns provide a valuable addition to Field Artillery fire power under certain conditions. All guns employed in forward areas must be prepared to fire normal Field Artillery missions on call. Careful and complete plans must be made for these fires, prior to the operations, by consultation with Field Artillery Officers at all echelons of command. (A workable method is published separately by MG, AA & CD, AFHQ, dated 21 July 1944).

13. Assault and follow-up Breakdown of Battalions.

In order that only the minimum number of personnel and vehicles accompany each unit in the assault and initial follow-up convoys, the following tables are a guide in determining the required left per AA Bn:

These are the figures on which were based the assault and early follow-up lift required. These units must get along with this complement for 15-30 days:

TABLE A

GUN BATTALION

Assault Personnel & Vehicles

Unit	EM	Off	Guns	Vehicles
Firing Btry	121	4	4	4 HM 1 1/4 ton 1 3/4 ton, Radio 1 2½ ton (15 ft) 1 584 2 Trl Power Plant 4 2½ ton, incl ammo 4 1 ton trl, incl ammo
Btry Total	121	4	4	18
4 Firing Btrys	484	16	16	72
Hq & Hq Btry	40	10		2 ¼ ton 1 3/4 ton 3 2½ ton 1 4 ton wrecker
	40	10		7
Bn Assault	524	26	16	79
Bn Follow-up	203	5	0	90

	Personnel	Vehicles
Total Assault	550	95
Total Follow-up	208	108

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TABLE B

AW BATTALION

Assault Personnel & Vehicles

Unit	No. of Units	EM	Off	Guns	Vehicles
AW Detach	8	10		1	1 2½ ton
Plat Hq	2	6	2		1 ¼ ton
Btry Hq	1	20	2		1 ¼ ton
					1 3/4 ton
					2 2½ ton
Btry Total		112	6	8	14
4 Firing Btrys		448	24	32	56
Hq & Hq Btry		29	9		3 ¼ ton
					1 3/4 ton
					2 2½ ton
					1 4 ton
		29	9		7
Bn Assault		477	33	32	63
Bn Follow-up		320	5	0	79

	Personnel	Vehicles
Total Assault	510	95
Total Follow-up	325	128

NOTE: M-51's will not be taken in the assault echelon, but will be carried with the first follow-up.

TABLE C

SP BATTALION

Assault Personnel & Vehicles

Unit	No. of Units	EM	Off	Guns	Vehicles
Detach	8	11		2	
Plat Hq	2	6	2		1 M3
Btry Hq	1	20	2		1 M3
					2 ¼ ton
					1 2½ ton
Btry Total		120	6	16	6
4 Firing Btrys		480	24	64	24
Hq & Hq Btry		67	9		1 M3
					2 ¼ ton
					3 2½ ton
					1 10 ton
		67	9		7

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Table C, SP Battalion, Assault Personnel & Vehicles (con.)

Bn Assault	547	33	64	31
Bn Follow-up	142	5	0	50

	Personnel	Vehicles
Total Assault	580	95
Total Follow-up	147	132

TABLE D

AAA Brigade Hq & Hq Btry and AACR Platoon

	Personnel	Vehicles
Assault	60	12
Follow-up	58	16

TABLE E

AAA Group, Hq & Hq Btry

	Personnel	Vehicles
Assault	30	8
Follow-up	35	7

14. Ammunition.

a. Definition of "Unit of Fire" - The expected expenditure of ammunition by type for three (3) days of Combat Operation.

b.

Type of Ammunition	Rounds Per U/F
Cal. .50 M/G (4 API-IT) or (2-2-1)	200
37 mm AA (90% HE, 10% AP)	160
40 mm AA (90% HE, 10% AP)	144
90 mm AA (86% Fuzed M43, 9% Fuzed M48, 5% AP)	75
5% Fuzed T105 (Extra)	4 (Not Part of U/F)

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c. Ordnance Class V (Ammunition) Phased Maintenance for Operation

Assault	Five (5) U/F
D plus 5	For troops on convoy - Five (5) U/F. For assault troops - 3 1/3 U/F.
D plus 10	For troops on convoy - Five (5) U/F. For assault and first follow-up troops - 1 2/3 U/F.
D plus 15	For troops on convoy - Six and two thirds (6 2/3) U/F. For assault, First and second follow-up trops - 3 1/3 U/F.
D plus 25	For troops on convoy - Five (5) U/F. For assault, first, second and third follow-up troops - 1 2/3 U/F. Thereafter ammunition supply to be based on consumption.
D plus 35 Convoy	For troops on convoy - Five (5) U/F.
D plus 45 Convoy	For troops on convoy - Six and two-thirds (6 2/3) U/F.
D plus 55 Convoys and all succeeding convoys as long as automatic supply continues	For troops on convoy - Five (5) U/F.

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Basic Load of Ammunition

d. The following units of fire for ammunition basic load is established for AAA units arriving in the assault area through D plus 30:

	For each .50 cal. MG Ground Mount	For each .50 cal. MG on Truck Mount	For each .50 Cal. MG on M13 Mounted	For each .50 cal. Mg Mounted on M 51	For each .50 cal. MG & 37mm Mounted on M15	For each 40mm Gun	For each 90mm Gun
.50 cal.	6 UF 1200 rds	2 UF 400 Rds	12 1/2 UF 2500 Rds	6 UF 1200 Rds	8 1/2 UF 1700 Rds		
37mm					1 1/2 UF 240 Rds		
40 mm						1 1/2 UF 216 Rds	
90mm							1 1/2 UF 112 Rds

NOTE: 1. After D plus 3 - or whenever AAA units have received all of their T/O & E transportation the basic load for 40mm and 90mm Guns will be increased to two (2) units of fire.

2. For D Day and pre-loaded Gun Bns only, the following additional ammunition will be added to the basic load:

5 Rds Smoke per 90mm Gun.
10 Rds M67 per 90mm Gun.

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15. Table of Organization and Equipment.

Unit	T/O & E	Date	Pers	Vehs
Brigade	44-10-1	Nov 43	74	17
AACR	44-7	Feb 44	44	11
Group	44-12	May 44	65	15
Gun (M)	44-15	Apr 44	758	203
Gun (SM)	44-115	Apr 44	659	98
AW (M)	44-25	Apr 44	835	223
AW (SM)	44-125	Apr 44	813	128
SP	44-75	Apr 44	727	227
S/L	44-135	Dec 43	847	259
BB	44-327	Jun 43	270	13

16. The following policy is announced to clarify AAA command and staff functions in US and French formations attached to, assigned to or placed under the operational control of this Headquarters.

a. In US or French Formations, the senior AAA Officer whether American or French, will command all the AAA units attached to, assigned to, or placed at the disposal of the Headquarters.

b. This officer will also act as advisor to the Commander on all AA matters and will be responsible for the coordination of all AA in the formation with lower, higher and adjacent formations.

c. However, in the case where this officer is not of the same nationality as that of the large unit to which he is attached, he will have as his assistant for advisory and coordination functions, the senior AAA Officer of the large unit.

d. All AAA not attached to --- Army, or to Corps or Divisions will function directly under --- Army, through one or more US Brigade Headquarters.

SECTION II

D to D plus 5

17. Responsibility.

a. During the assault and until the ----- Corps arrives and is assigned an area, the responsibility for the AA Defense of all installations in the target area rests on the CG of the --- (US) Corps.

b. When the ---- Corps is assigned an area, the responsibility for AA Defense will rest on the CG of each Corps for installations within its own boundaries.

c. It is anticipated that Corps boundaries will include all beaches

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and airfields until D plus 5. If developments necessitate relieving Corps Commanders of responsibility for AA defense of beaches prior to D plus 5, the necessary AAA units will be relieved from attached to the Corps and will be assigned those responsibilities directly under --- Army.

18. AAA Troops from D to D plus 5 (excl).

(Omitted on this copy)

19. Priorities and minimum scales.

Based on importance to the initial success of the landing, and on previous experience with enemy air activity, priorities for AA defense for this period are established as follows:

a. Beaches and Shipping (Minor Ports).
b. Airports and Landing Strips.
c. Field Artillery.

These cannot be regarded as exclusive priorities unless losses of AAA in landing or enroute and concentration of enemy air activity make it impossible to give all three reasonable protection. Reduction in AAA lifted by subordinate units would have the same effect. Minimum planning requirements for each are as follows:

	90mm Guns	37 mm SP or 40 mm AW
Beaches, per mile	4* Guns	8 AW's
Div Arty, per Div	0 Guns	32 AW's
Non-Div Arty, per Bn	4* Guns	8 AW's
Airfields, each	8 Guns	16 AW's
Minor Ports	8** Guns	16** AW's

* - Plus 4 additional for first mile or first Battalion.
** - To be doubled as early as possible. Beaches and ports must also have balloon protection.

20. Balloons.

a. Because in this operation every LST and larger ship or craft will be flying its own balloon and the flying of two from one ship is not practicable, the normal method of walking a balloon ashore from LST's cannot be followed. Because each balloon requires 16 cylinders of hydrogen, it is not practicable to fill the balloons on the beach after landing. The vital importances of having balloons ashore to protect beaches and beached craft makes it essential that the landing of balloons be not delayed.

b. The following plan for the three (3) Balloon Batteries for the assault has been agreed upon by Army, Navy and MAAF: "Thirty (30) inflated operational balloons per assault division, each balloon with one winch,

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three (3) extra cylinders of hydrogen and four (4) men from the appropriate balloon battery will be walked aboard the LCT's in the ---area. All LCT's must stop at --- for refueling at which time each balloon will be close hauled and topped up. Because of the location of the airfield with relation to the Port of --- all balloons will be kept in the "close hauled" position while the LCT's are anchored in the staging area. Wing Commander ---, Balloon Staff Officer, MACAF, has agreed to have twenty (20) inflated balloons complete with flying tackle in --- to replace any balloons which may have been lost between --- and ---. Upon arrival in the assault area the balloons, hand winches and gas cylinders will be walked ashore. In addition to the four (4) men accompanying each balloon not less than forty (40) men and officers and five (5) vehicles will enter the assault area with each balloon battery".

c. While 90 operational balloons will be ashore on D Day, it may not be practical to fly that many continuously, as gas and balloon supply will not permit. Selected points on the beach will be given adequate protection particularly shore end of pontoon causeways. Only that number of balloons will be flown which can be maintained. Previous experience indicates 200% replacement is required for the number of balloons flown for the first ten days. Only the 200% reserve with each battery will be available until after D plus 10. 30 operational balloons per battery represents the probable maximum sustained effort.

SECTION III

D plus 5 to D plus 10

21. Responsibility.

a. U. S. Corps Commander and --- Army Commander will continue to be responsible for the AA Defense of all areas within their boundaries not specifically assigned to the AAA Group or Groups operating directly under --- Army.

b. A Group or Groups will be given responsibility for the AAA defense of all areas in rear of --- Corps and Army -- boundaries. The necessary AAA units will be relieved from attached to --- Corps and Army --- for this purpose.

c. This paragraph will go into effect only on specific orders of Commanding General, --- Army.

22. Additional AAA Troops, D plus 5 (Incl) to D plus 10 (Excl).

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23. Balloons.

a. As additional supply beaches are secured, additional balloon barrages will be flown for their protection as materiel becomes available.

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b. First balloon maintenance, in addition to supplies in hands of troops, arrives in assault area on D plus 10.

SECTION IV

D plus 10 to D plus 40

24. a. Responsibility for AA Defense in areas forward of U.S. Corps rear boundary and --- Army rear boundary continues to rest on the respective commanders.

b. Responsibility for AA defense of areas in rear of U.S. Corps boundaries and Army --- will be assigned to the CG --- AAA Brigade.

c. Exceptions to the above, as in the case of an airfield or port within Corps boundaries, will be specifically assigned.

25. Additional AAA Troops, D plus 10 (Incl) to D plus 40 (Excl).

(Omitted on this copy)

SECTION V

D plus 40 et seq.

26. a. No change in responsibilities of --- Corps and --- Army Commanders.

b. With arrival of AAA Brigade on D plus 40, AAA Defense of all areas in rear of --- Army and --- Corps boundaries will be divided between CG's --- and --- AAA Brigades as determined by circumstances existing at that time.

27. Additional AAA Troops D plus 40 (Incl) et seq.

(Omitted on this copy)

By Command of Major General ----------

Brig. Gen., USA,
Chief of Staff.

OFFICIAL:

Colonel, G.S.C.,
A. C. of S., G-3.

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Auth: CG AGF
Initials: RES
Date: 20 Nov 44.

HEADQUARTERS
___AAA BRIGADE
APO___U. S. ARMY

OPERATIONS MEMORANDUM)
:
NUMBER _____)

DATE _____

AAA AW BARRAGES

1. AAA AW barrages are hereby established for the beachhead area effective at dusk D-Day. Upon orders from the Commanding General, --- AAA Brigade, --- AAOR (---) will order these barrages which will include all 40mm and 37mm AAA guns within --- Corps area.

2. The following instructions will govern all barrage firing within beachhead areas:

a. General:

(1) The barrages will be employed upon specific orders from --- AAOR in each case when multiple targets, paratroop attacks, low altitudes or evasive action render accurate tracking and engagement by HAA impracticable or ineffective. The purpose of these barrages is to drive low-flying aircraft out of the area or to higher altitudes where they can be engaged by HAA.

(2) These barrages will be designated as follows:

RED BARRAGE	-	All AW--- Div area
WHITE BARRAGE	-	All AW--- Div area
BLUE BARRAGE	-	All AW--- Div area
GENERAL BARRAGE	-	All AW in --- Corps area.

(3) Group commanders are responsible for the assignment of azimuth bearings to all 40mm and 37mm guns in their respective areas, irrespective of whether or not said guns are part of their command, as soon as practicable, after occupation of positions.

(4) Unit commanders are responsible that all of their gun sections are fully informed of the contents of this memorandum and that they comply with the provisions hereof and particularly that they know in which barrage area their guns are located.

b. Detailed Instructions:

(1) A barrage consists of six (6) rounds of 40mm or 37mm ammunition fired at the rate of one (1) round every (2) seconds. (The prescribed method of individual traverse will insure the interval.)

(2) Each gun will have but one barrage point, all quadrant elevations to be 50 degrees.

Inclosure No. 1

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(3) Only the first round of a barrage will be fired from the initial firing position. Prior to each succeeding round, the guns will be traversed right one (1) full turn of the traversing handwheel. The lateral gun pointer will give the command "FIRE" for each individual round immediately after gun is set. At the end of six (6) rounds total net traverse is right five (5) full turns.

(4) Upon completion of a barrage, gun will be traversed left five (5) full turns to initial firing direction in readiness for new barrage.

(5) These rules apply to all fire units regardless of their barrage sectors.

(6) Initial firing direction for each gun will be marked by a white stake, on the perimeter of the emplacement, which is easily seen during hours of darkness.

(7) 40mm and 37mm guns only will participate in barrage firing. No machine guns or any type of small arms will be fired in the barrage unless specifically authorized by AAOR. This authority will normally be given only in event of paratroop attack.

(8) Orders to fire the barrages will be given from --- AAOR (---) in the following manner:

(a)	RED BARRAGE	RED BARRAGE	FIRE
	WHITE BARRAGE	WHITE BARRAGE	FIRE
	BLUE BARRAGE	BLUE BARRAGE	FIRE
	GENERAL BARRAGE	GENERAL BARRAGE	FIRE

(NOTE: The preparatory command is given twice.)

(b) A pause of approximately five (5) seconds will ensue between preparatory command and the command of execution. All units receiving the preparatory command for this particular barrage will execute the barrage approximately five (5) seconds thereafter, regardless of whether or not they receive the command of execution.

(9) Each gun will be set on its barrage data at the close of evening stand-to and kept on that setting until opening of the morning stand-to, so that all that is necessary to execute a barrage is to fire the prescribed six (6) rounds. Ammunition expended will be replaced at once by insertion of another clip in the auto loader.

(10) During the hours of darkness, all gun sites and radio and wire communications necessary for two-way communication between AAOR, control stations and sites must be continuously manned and the guns ready to fire instantly upon receipt of orders.

3. Miscellaneous:

a. All personnel using communication facilities will be thoroughly

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instructed on the proper procedure to pass information to AACR (VISOR) on targets they hear approaching or flying over their respective positions. Gun sections will be thoroughly familiar with all barrage orders and will fire only when their own particular barrage is ordered. Guns which, for any reason are unable to open fire promptly upon orders will, if delay is brief and barrage is still in progress, fire a reduced number of rounds at normal rate, or if barrage is then ending, refrain from firing. They must not prolong the barrage and all crews must understand the necessity for rigid fire discipline.

4. The following unit headquarters may request barrages to be fired on all aircraft entering the Inner Artillery Zone (IAZ):

a. ---AAA AW Bn (SP) RED BARRAGE area
---AAA AW Bn

b. ---AAA AW Bn (SP) WHITE BARRAGE area
---AAA AW Bn

c. ---AAA AW Bn (SP) BLUE BARRAGE area
---AAA AW Bn

d. Appropriate barrage will be requested as follows:

(Unit call letters followed by "REQUEST (RED), (WHITE), or (BLUE)". Example: QLB --- REQUEST RED.)

e. Upon receipt of such message ---AACR will, if practicable, give the order to fire.

5. Each unit headquarters designated above will establish and maintain during the hours of darkness, at least one special listening post at each of the following places: to the west of his most western gun, to the east of his most eastern gun, and to the north of his most northern gun. The purpose of these listening posts is to detect, report and destroy or turn back low-flying aircraft (3000 ft or lower) operating in their sector.

6. Requests for barrages will be made only by commissioned officers authorized by the commanding officer of the unit concerned.

By command of Brigadier General

Colonel, CAC
Executive

OFFICIAL:

Lt Col, CAC
S-3

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HEADQUARTERS
---AAA BRIGADE
APO--- U.S. ARMY

Auth:..CG.AGF.....
Initials:...RES...
Date:...20.Nov.44.

OPERATIONS MEMORANDUM) Date
:
NUMBER _____)

1. Operations Memorandum No. __, this Headquarters, dated _____ is hereby revoked.

2. Effective D-Day, the ---Corps AAAIS is established as described below.

3. a. The --- AAOD will be clearing house for antiaircraft intelligence. At night it will operate for unseen firing. It will receive plots of hostile and unidentified aircraft from Brigade OP's, radars and SOR and will pass these plots by wire and over the AAAIS channel by radio.

b. The AACR will be supervised and controlled by the Brigade Commander.

4. Sources of information.

a. SOR.

b. 90mm gun battery outposts and radars.

c. Automatic weapons battery gun sections and outposts.

d. Navy.

5. a. Flash messages from all subordinate AAA sources will be transmitted in the following form and order:

FORM	EXAMPLE
Flash	Flash
Location of A/C	Nan - 66 - Baker
Direction of Flight and Altitude	NW - High (medium)(low) yards if reported by gun battery)
Number and Type of A/C	4 - (FW-190)(unknown)
Designation of reporting station	Swing Charlie *

* (By call letters if reported by radio. See paragraph 6, below.) showing or not showing IFF (90mm batteries only).

b. (1) Flash messages emanating from the AACR will follow the same form and order prescribed above, except that a track number and a code word conveying firing instructions for AAA units only will be inserted immediately following the number and type of A/C. Code consists of three (3) words which will be interpreted as follows:

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(a) THUNDER will indicate the A/C, located by the flash message plot, is hostile and may be fired upon.

(b) CALM (by day only) will indicate that there are friendly A/C in the vicinity of the hostiles being plotted and AAA gunners must be particularly alert to insure positive recognition to avoid engaging the friendly planes.

(c) CLOUDY will indicate that an unidentified A/C located by the flash message plot has been identified as friendly.

(2) These code words are to be used only in the downward channel from SOR to AAOR to firing units.

(3) Flash messages emanating from AAOR will be preceeded by "Flash, Flash, Flash", and alert messages will be preceeded by "To all sites, To all sites" followed by type of condition.

c. Location cards for plotting purposes are used as described in Inclosure No. 1, attached.

6. a. Wire communication is the primary source of communication between AAOR and units. The procedure for installing and maintaining these lines is as follows:

(1) Gun Bns install and maintain a direct line to AAOR.

(2) Each gun battery installs and maintains a direct line to the AAOR.

(3) AW Bns install and maintain a direct line to AAOR.

(4) AW Bns (SP): wire not practical (see Radio).

(5) Direct lines from AAOR to all auxilliary units (Chemical S.G. Cos, Barrage Balloon Co, etc.), are the responsibility of these auxiliary units.

(6) Letter, Chief Signal Officer, dated 15 December 1943, rules that responsibility for provision of communication between SOR and AAOR is that of the American Air Force Signal Troops. However, this principle must not operate to delay installation or repair of such lines by the AAA in the event the Air Forces do not install or repair them.

(7) Communication between Navy and AAOR will be the responsibility of the AAA Brigade.

b. Radio.

(1) All units will be prepared to transmit and receive plots by radio to and from AAOR in event of wire failure. AW (SP) battalion

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headquarters will stand by continually with AACR to receive and transmit plots. Plots will be retransmitted over Bn FM sets to all fire units. AW Bns will either maintain SCR-593 on AACR transmitting frequency at each gun site or maintain one SCR-593 at platoon switchboard with all fire units of platoon on hot loop. Information regarding frequencies, call signs, etc., for communication between AACR and units will appear in Brigade SOI.

(2) The AACR will use the code word-----as its call name during the first five (5) days (D through D + 5). Beginning 0018 D + 6 the AACR will use the normal link sign procedure as prescribed in current Brigade SOI.

(3) Immediately --- AACR is in operation on the beach D-Day, they will notify SOR aboard ship who will in turn notify all AAA units to change to the --- frequency.

c. Line checks will be made hourly on the hour by the AACR and on the half hour by the units. AACR will announce the correct time at least four (4) times daily to all units. Radio test calls will be made on the hour every hour daily by the AACR. AACR will broadcast the correct time at least four times daily.

7. Procedure.

a. SOR

(1) AAA liaison personnel at SOR will receive and transmit A/C information. The senior officer of the liaison detail will be in charge of the details relating to assignments and periods of duty of officers.

(2) Duties of SOR Detail:

(a) Remains continuously on duty on the SOR.

(b) Transmits plots in MAFOG to the AACR. The flight number of the plot as shown on the operations board will be transmitted immediately after the word "flash".

(c) Receives plots in MAFOG emanating from AACR, and reports them as desired by sector controller.

b. AACR.

(1) Passes information to AAA units by wire and radio.

(2) Transmits filtered information of enemy or unidentified planes seen, heard, radar-located (with or without IFF showing) to the SOR.

(3) Calls alerts as directed by Brigade Commander.

8. All units will be especially watchful for an attempted airborne attack by the enemy (day and night). Information of an attempted attack

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will be immediately relayed by the fastest available means to the AACR. AACR will notify the Commanding General, --- AAA Brigade (telephone ---), and all AAA units. If telephone communication fails, a messenger will be dispatched to Brigade Headquarters without delay. The following form will be used by all units to relay this information.

FORM	EXAMPLE
Code word (published by ---Corps)	---------
Number of paratroopers	Six (6)
Location by coordinates	F-844217

9. The --- AAA Group will organize and maintain an emergency AACR to land and set up for operation on the beach D-Day. This AACR will operate in the event --- AACR is disabled and will go into action only upon orders of the Brigade Commander. All procedure and frequencies will be the same as set up for the --- AACR.

10. All units of --- Corps desiring warning service may obtain flash messages of A/C plots and paratroopers by tuning radio receivers to the appropriate frequency. AACR will transmit on --- kcs. (AM).

By command of Brigadier General

Colonel, CAC
Executive

OFFICIAL:

Lt Col, CAC
S-3

DISTR: "C"

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SECRET
Auth: SAC/MT
Initials: RRF
Date: 22 July 1944

ALLIED FORCE HEADQUARTERS
APO 512

OPERATION MEMORANDUM)
:
NUMBER 61)

CONTROL OF AIRCRAFT AND AA DEFENSE IN AMPHIBIOUS OPERATIONS NOW BEING PLANNED

1. The following rules for control of Aircraft and AA Defense are prescribed for amphibious operations now being planned.

2. a. D Day - Special Rules

(1) Time:- from H-8 hours until 2130B (1930GMT) on the evening of D Day.

(2) Special belt:- between a line 12000 yards seaward of the coast and a line 5000 yards seaward of the coast.

(3) Restriction to AA fire both afloat and ashore

(a) Outside the special belt. Antiaircraft artillery will not fire at aircraft outside the belt in (2) above unless it commits a hostile act or is recognized as hostile.

(b) Inside the special belt. Antiaircraft artillery may fire at any aircraft inside the belt in (2) above not recognized as friendly that flies below 3000 feet altitude. Antiaircraft artillery will not fire on aircraft above 3000 feet inside the belt unless it commits a hostile act or is recognized as hostile.

(4) Restriction to Allied Aircraft.

(a) Within the belt described in (2) above Allied aircraft will fly above 5000 feet altitude.

(b) Seaward of the 12000 yard line Allied aircraft will conform to the Mediterranean Area rules governing aircraft in the vicinity of ships at sea.

(c) Landward of the 5000 yard line Allied aircraft may fly at any altitude.

b. At Night - General Rules.

(1) Time:- from 2130B (1930 GMT) on the evening of D Day until 0550B (0350 GMT) of D plus 1 and every night thereafter between these hours, until changed by Air Task Force Commander.

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CM No 61, 22 July 44
(Cont'd)

(2) Extent:- an area whose seaward limit is 12000 yards from the coast, whose landward limit is 12000 yards inland from the coast and extending along the coast between lines 12000 yards outward from the limits of beach activity.

(3) Restrictions to AA fire both afloat and ashore:- The area described in (2) above will be an IAZ between the hours listed in (1) above. (See AFHQ Air Defense Instruction No 1, dated 15 September 1943)

c. In Daytime - General Rules After D Day

(1) Time:- from 0550B (0350 GMT) of D plus 1 until 2130B (1930 GMT) of D plus 1 and every day thereafter between these hours.

(2) Extent:- an area inclosed by a line 12000 yards to seaward of the coast, a line 3000 yards inland from the coast and extending along the coast between the points where the bombline cuts the coast.

(3) Restrictions to AA fire both afloat and ashore.

(a) Antiaircraft artillery may fire at any aircraft in the area described in (2) above not definitely recognized as friendly, that flies below 3000 feet.

(b) Antiaircraft Artillery will only fire at aircraft flying above 3000 feet in this area if the aircraft commits a hostile act or is recognized as hostile.

(c) Antiaircraft Artillery ashore will not fire at aircraft outside the area described in (2) above unless it commits a hostile act or is definitely recognized as hostile. Ships to seaward of this area will obey the normal rules for antiaircraft.

(4) Restrictions to Allied Aircraft:-

Within the area described in (2) above Allied aircraft will fly above 5000 feet altitude.

(5) Major War Vessels including destroyers, are free to fire on all aircraft below 3000 feet within the assault area, not recognized as friendly. Above 3000 feet within 1200 yards of the ship, fire will be limited to aircraft which are recognized as hostile or commit a hostile act.

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d. Minor warships, Merchant ships and craft - Special Instructions

Fire from Minor Warships, Merchant ships and Craft is totally prohibited both by day and night against aircraft flying within 12000 yards of the assault coast unless the ship herself is being directly attacked with torpedoes, bombs, or by fighter aircraft. Outside 12000 yards from the assault coast normal rules for minor warships, merchant ships and craft apply except during the approach on D Day - see paragraph 2 a and 3 a.

e. Abolition of Special Rules

When Army, Navy and Air Force Commanders agree, these special rules for the assault area will cease being effective. Any of the three Commanders concerned may take the initiative in this matter.

3. Smoke

a. The Naval Commander is responsible for control of smoke covering the shipping in the anchorage.

b. The Beach Group Commander is responsible for control of smoke covering the beaches and small ports.

c. The Antiaircraft Defense Commander (AADC) is responsible for smoke control in major ports, with consent of Navy. This consent is obtained periodically and not for each raid.

4. Barrage Balloons

a. Shore barrage balloons will be controlled by the Antiaircraft Defense Commander. Balloons over shipping will be controlled by Naval Commander.

b. All Balloons will be operated normally at an altitude not to exceed 2000 feet.

c. All balloons will be close hauled to 25 feet when required by the Air Commander for airborne operations, or when specially agreed for other air operations.

5. Definition of a Hostile Act

a. Attacking friendly ground targets, ships or aircraft.

b. Dropping flares at night.

c. Diving on troops, ships or vulnerable points.

d. Use of WINDOW or other forms of radar jamming.

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6. Aircraft will be considered friendly unless they commit a hostile act if:

a. Recognized as friendly by appearance.

b. Following a prescribed route.

c. Displaying correct recognition signals.

d. Showing correct IFF response.

e. Landing gear down.

f. A Bi-plane.

g. Seaplane, flying boat or float plane.

7. Liaison

a. The Antiaircraft Commander will establish liaison with the Beach Group Commander and furnish early warning of hostile air approach.

b. As the Antiaircraft Commander will be ashore and established before the Air Force Air Defense Commander, the latter, upon arrival, will establish contact with the Antiaircraft Commander.

8. Instructions for AA

a. Except in the Assault Area, IAZs and GDAs, AAA will fire only on aircraft recognized as hostile unless firing is authorized by a Sector Operations Room operated by the Air Forces.

b. Enemy aircraft in combat with or being chased by friendly fighters will not be engaged.

c. Air Observation Posts (O.P) planes of the Field Artillery will normally be operating below 3000 feet and care will be taken to avoid endangering them.

d. No weapons smaller than .50 cal. will be fired at aircraft under any circumstances unless attacked.

e. Parachute mines and glider bombs may be engaged by Automatic Weapons (AA) down to a height of 500 feet provided the angle of elevation insures the safety of friendly installations.

f. Flares will not be engaged by AAA.

g. If airborne forces are involved, specific lanes will be designated which will clear all shipping as far as possible.

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During appropriate periods all AA fire will be prohibited within these lanes in order to permit free passage of troop carrier planes. AAA, ashore and afloat, must be advised well in advance of all airborne movements.

h. The AADC will:-

(1) Provide for reception of early warning broadcasts and reception of telephone communications from the Air Controller.

(2) Assume the duties of Controller in such matters as concern AAA in the absense of communication with Air Controller.

(3) Arrange for dissemination to AAA of all Air Intelligence and of all instructions from Controller.

(4) Provide communications to each element of AAA.

9. Instructions for Air Force

a. Avoid committing hostile acts as listed in paragraph 6 above.

b. Avoid approaching friendly AA out of the sun.

c. Switch on IFF when approaching friendly territory or ships.

d. Whenever fired on by friendly AAA, or whenever inadvertently or in an emergency committing a "hostile act" as listed in paragraph 6 above, flash the letter of the period on downward recognition lamp or fire the colors of the day by Very Pistol. SEF are often not fitted with downward recognition lamps nor Very Pistols.

e. Avoid IAZ's unless ordered over them by the Sector Controller.

f. Do not fly below 5000 feet over the assault area, except when essential in air combat, or previously agreed and all concerned notified.

g. Be responsible for seeing that line communications to AA Defense Commander are provided.

h. Follow prescribed rules for approaching an airfield. If the local rule is unknown, use the following precautions:

(1) Reduce speed.

(2) If possible, lower undercarriage before descending below 1000 feet.

(3) Do not make first approach out of the sun.

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(4) Circle at not less than 1000 feet or below clouds and within 3 mile radius of center of field.

(5) At night, flash the letter of the period, followed by F, if flood light is desired.

(6) Fire the color of the period on first approach and repeat if engaged by AAA, or if any doubt of identification exists.

i. AAA and Navy must be notified well in advance of all intended airborne movements.

j. Set up an early warning system and insure early broadcast of warnings to all concerned.

k. When communications permit, exercise control over AAA including balloons, through AA defense Commanders.

l. Except in emergency, external fuel tanks will be dropped as far away from the beaches and shipping as possible to avoid their being mistaken for bombs.

By command of General Wilson:

J. A. H. GAMMELL
Lieutenant General,
Chief of Staff.

OFFICIAL:

DANIEL NOCE,
Major General G.S.C.
Assistant Chief of Staff, G-3

DISTRIBUTION:

185 - G-3 (A)
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HEADQUARTERS
35TH AAA BRIGADE
APO 758, U.S. ARMY

By Auth of CG,
35th AAA Brigade
Initials
Date: 7 Sept 44

7 September 1944

SUBJECT: Antiaircraft Operations Report.

TO : Commanding General, Seventh Army, APO 758, U. S. Army.

In compliance with letter, your headquarters, subject same as above, dated 28 August 1944, the following report is submitted:

1. During all phases of "Operations Dragoon" this Brigade, with attached units, was assigned the mission of AAA protection for VI Corps.

2. AAA Plans.

a. The VI Corps AAA Plan (attached Annex No. 1) primarily covered loading, unloading and the initial defense of the Beachhead, however, provisions were made for the protection of divisions debouching from the Beachhead area.

b. All AAA units were attached to the AAA Brigade for the main purpose of permitting the Brigade Commander to completely plan and coordinate the AAA defenses without interference from other commanders.

c. (1) Units operating with divisions were not attached to, but placed in direct support of, said divisions. Three Group headquarters were allotted for the operation, permitting one Group headquarters to be placed in support of each division. Also in support of each division were one (1) gun battalion, one (1) automatic weapons battalion (SP), one (1) automatic weapons battalion, one (1) AA balloon battery (VLA) and one smoke platoon Cml Decon (smoke pots). This provided for a separate AAA Command in each divisional area that was entirely independent of the others. The Group Commander was appointed Antiaircraft Defense Commander (AADC) for his particular divisional area and as such co-ordinated all AAA in the area.

(2) Schedule for landing divisional AAA:

(a) H plus 15 minutes: one (1) balloon battery (30 balloons only) to be walked ashore from LCTs (one balloon per LCT) at Ruling Operational Height (ROH) 2000 feet.
(b) H plus 120 minutes: one (1) AW (SP) battalion from LSTs.
(c) H plus 180 minutes: one (1) gun battalion from LSTs.
(d) On call D Day: one (1) AW battalion from LSTs.
(e) The plan provided for all assault AAA to be in position by 1800 hours D Day.

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d. Operating directly under Brigade control as Corps AAA were one (1) AA Operations Detachment, one (1) gun battalion, two (2) AW battalions and one (1) smoke platoon. These units and Brigade Headquarters were on the following landing schedule:

(1) On call D Day: one (1) AA Operations Detachment, one (1) gun battalion and one (1) AW battalion from Liberty ships.
(2) On call D Day plus one: one (1) AW battalion and one (1) smoke platoon from Liberty ships.
(3) All units on call D Day were to be in position ashore by 1800 hours D Day.

e. 90mm Plan:

(1) Positions for 90mm batteries were selected after a very careful map, model and aerial photo study of the assault area. These positions were selected to give a coordinated gun defense of the entire assault area, therefore, battalion commanders were each assigned four (4) positions to occupy, such positions being in the immediate vicinity of the battalion landing beaches. In order not to jeopardize the entire plan of coordinated defense, each gun battery commander was instructed to emplace his battery as close to the selected position as was practicable (see Annex No. 2, 90mm Gun Density of Assault Area). All 90mm batteries were to be in position ready for action by 1800 hours D Day.

(2) Previous experience influenced us to believe that the enemy would make his greatest air efforts from dusk to dawn the night of D Day and several nights thereafter, therefore, an Inner Artillery Zone (IAZ) by night only, for the assault area, to become effective at dusk D Day was recommended. This IAZ was approved and covered the entire assault area following the contours of the coastline 12,000 yards inland and 12,000 yards seaward.

(3) For radar plan "Operation Dragoon" see Annex No. 1, Inclosure No. 3, Operations Memorandum No. 26, this headquarters.

f. Automatic Weapons Plan:

(1) The SP battalion with each division was given the mission of protecting the division beaches initially and were to remain in that role until relieved by the AW battalion with each division. When relieved by the AW battalion, the SP battalion would automatically revert to the mission of protecting its particular division. AW positions were selected in the assault area in advance, from maps, models and aerial photographs. These positions were selected under the coordination of Group headquarters and provided for the following contingencies:

(a) SP battalion moving out immediately upon being relieved by the AW battalion, caused by a rapid advance inland.
(b) SP battalion remaining on the beaches and AW battalion landing as scheduled, caused by extremely slow movement inland.

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(c) Part of SP battalion remaining on beaches caused by a limited advance. This actually amounted to an extension in depth of beach defenses.

g. Barrage Plan (AW):

An automatic weapons barrage was set up in each divisional area. This barrage was to be ready for action by dusk D Day. Azimuth bearings were selected for each 40mm and 37mm gun position in the above plan (see attached Annex No. 1, Inclosure No. 1, Operations Memorandum No. 24, this headquarters).

h. Barrage Balloon Plan:

(1) Each balloon battery was required to fly thirty (30) balloons on thirty LCTs in their supported division's convoy. These balloons were to remain flying enroute and were to be walked ashore at the landing beach. This system conserved shipping space and established a balloon defense early in the operation. Hand winches were used aboard LCTs and initially on shore. Map positions were selected in advance the same as for 90mms and AWs.

(2) All balloons were flown at RCH 2000 feet while being walked ashore to prevent enemy artillery from using them as registration points.

3. Loading:

a. No new loading difficulties were encountered.

b. The maximum number of automatic weapons were loaded on the top decks of all ships to provide additional AA for convoy as well as for shipping prior to unloading in the assault area.

4. Unloading:

a. Unloading was accomplished according to plan except for units loaded aboard Liberty ships. Many craft assigned to unloading Libery ships on which AAA was loaded were ordered to unload other units of higher priority on D Day. On D Day plus one the unloading of AAA aboard Liberty ships was again cancelled to expedite unloading the French Corps infantry elements. 90mm units aboard Liberty ships that were scheduled to land D Day did not debark until D Day plus two.

5. Assault:

All units scheduled for the assault landed as planned except the two gun battalions and one and one-half AW battalions loaded on Liberty ships. One (1) AW battalion and two (2) gun batteries in support of the 45th Division were placed on later convoys because of insufficient lift, however, the original plan was changed, substituting Corps AAA units for them, these units being shipped on Corps lift as originally planned. The

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AACD was set up to land on D Day but did not land until D Day plus one since it was loaded aboard a Liberty ship. This necessitated an emergency AACD which had been set up in one of the Group headquarters especially for this purpose.

6. Reconnaissance:

a. Extensive map, model and aerial reconnaissance proved to be one of our most valuable assets in this operation. Only two (2) of sixteen (16) 90mm positions selected in this manner had to be deviated from more than five hundred (500) yards and in these cases batteries were finally located within fifteen hundred (1500) yards of selected position. Automatic weapons battalions met with the same degree of success.

b. Reconnaissance parties went ashore well ahead of their units and experienced no unusual difficulty. Reconnaissance parties should debark not later than the second wave preceeding the wave of their units, this will eliminate the possibility of having the unit arrive ahead of the reconnaissance party and will permit sufficient time for reconnaissance if difficulty is encountered enroute or ashore by the reconnaissance party.

7. Organization of beach AA defenses:

a. The landing was executed in three separate areas consisting of from two (2) to three (3) landing beaches in each area. Prior to the consolidation of these separate areas, each Group Commander was appointed AADC for his particular area. The Brigade headquarters landed in the central beach area and located in the vicinity of Corps headquarters from which position it functioned.

b. Organization of beach AA defense is covered in detail in attached Annex No. 1.

8. AAAIS:

a. The AAAIS used in "Operation Dragoon" is outlined in detail in attached Annex No. 1.

b. Because of the possibility that the 35th AACD would not land in time to go into action by dusk D Day, an emergency AACD was set up to be put in operation by 68th AAA Group. In the event that both 35th AACD and emergency AACD were not in action by dusk D Day still another emergency AAAIS was set up (see attached Annex No. 3, Operations Memorandum No. 31, this headquarters). On the actual landing, 35th AACD did not land D Day as planned, therefore, the Provisional AACD went into action but was picked up on only two of the three beach areas due to interference by radios by mountains, because of this, the emergency AAAIS was put into operation for the third area. These emergency systems functioned efficiently until 35th AACD landed and set up D Day plus one (1).

9. AWS:

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It was planned to have aircraft warning service, for "Operation Dragoon", furnished AAA units by SOR in the form of a chatter broadcast in the clear, giving information on aircraft locations and movements by reference to known points. This information was to have been broadcast by the Antiaircraft Liaison Officer (AALO) at SOR and was to be continued until 35th AAOD became operational on shore. Instead the AALO transmitted actual plots in British Military Grid (same procedure as that used by the AACD) by using a locator card (as attached to Annex No. 1, Inclosure No. 2, Operations Memorandum No. 25, this headquarters) with superimposed MAFOG. By using this method the AALO could receive the information from the Sector Controller in MAFOG and could immediately rebroadcast to AAA units, in British Military Grid, thereby giving them accurate plots. This system continued in operation until 35th AAOD became operation D Day plus one. When 68th AAOD became operational D Day it received plots from AALO in British Military Grid instead of MAFOG to enable the area which could not receive 68th AAOR to continue receiving plots under the emergency AAAIS plan.

10. Movement of AA Inland:

a. The movement of AA inland did not take place as originally planned for several reasons, the main one being that instead of releasing some of the beaches D Day plus one beaches were continued in operation and kept their importance, also, additional beaches were used. This required AAA units that had been set up to move inland with the advance. Two of the three divisions had their AW SP battalions move immediately with them, but the 45th Division (the one that didn't bring in its AW battalion (40mm Bn)) was without AAA protection until the evening of D Day plus one when this SP battalion was relieved from the mission protecting beaches by the Corps AW battalion unloaded from Liberty ships.

b. Sufficient AAA was provided for in the Corps and Army plans, but cancellation was made of follow-up AAA which required the employment of Corps AAA on rear area assignments, this resulted in insufficient AAA for the protection of Corps during its advance. As a result, ten (10) field artillery battalions were completely without AAA protection and only a token defense could be provided divisions because of the necessity of protecting vital bridges with the AW SP Battalions.

11. Personnel Losses:

The majority of personnel losses occurred aboard an LST that received a direct bomb hit D Day; however, several were caused by mines, booby traps and snipers which were plentiful along the coast.

Total casualties:	Killed in action:	2 EM
	Wounded in action:	1 Off 32 EM
	Missing in action:	10 EM

12. Materiel Losses:

The following materiel losses were sustained by units of this Brigade during this period:

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4 - 40mm guns (M1A1)	9 - trucks, 2½ ton cargo
4 - directors, M-5	2 - trailers, 1 ton
4 - generators, M-5	1 - carriage, motor, multiple gun, M-15
3 - truck, 3/4 ton, W/C	27 - Barrage Balloons
2 - trucks, 4ton, C & R	

15. Enemy Aerial Activity:

The following statistical data shows the number of enemy aircraft which operated in our sector during this period and the results obtained by units of this command:

a. Number of aircraft engaged -- total: 27.
b. Types: Me 109: 6 Re-200l: 2
Me 110: 2 Do 217: 4
JU 88: 12 Unknown 1
c. Number of flights engaged: 8.
d. Average number of aircraft per flight: 3½.
e. Number of flights engaged during daylight: 7.
f. Number of flights engaged during darkness: 1.
g. Number of aircraft destroyed: 4.
h. Number of aircraft probably destroyed: 3.
i. Type of aircraft destroyed or probably destroyed:
Me 109: 1
JU 88: 4
Re-200l: 2
j. Missions of aircraft:
Level bombing: 37.5%
Dive bombing: 25.0%
Strafing: 12.5%
Reconnaissance: 12.5%
Unknown: 12.5%

16. Lessons Learned and Recommendations:

a. Gun batteries (90mm) scheduled for an assault landing should not be loaded on Liberty-type ships because the holds on this type ship are not suitably located to accommodate the large radar vans of this type unit. These vans must be placed in the lower holds and cannot be unloaded until all other equipment above is unloaded. With the normal allotment of landing craft per Liberty ship for unloading at landing beaches, this equipment cannot be expected to land until approximately twenty-four (24) hours after unloading operations commence. LSTs are ideal for landing operations involving 90mm batteries. All 90mm batteries in this operation loaded aboard LSTs landed with a minimum of difficulty and loss of time.

b. The six ton prime mover (Corbett) proved satisfactory for beach crossing with the use of mesh nets placed on the beach by engineers. These prime movers also proved very satisfactory for the highly mobile mission of the 72d AAA Gun Bn during the advance in Southern France.

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c. The SCR-584 proved highly mobile and very satisfactory for early warning during the recent rapid advance.

d. The organization of several emergency AAAIS proved most valuable on this particular operation and should be provided for in all future operations of this type.

e. The organization of a sub GOR in the gun battalion headquarters. is essential for emergency use when AAOR is unable to function or in event of a complete breakdown of communications with AAOR.

f. In a mobile situation such as the present one the AAOD should be completely mobile as too much time is required for loading and unloading when moving. The 35th AACD is now operating from a captured van and is mobile. The length of time required for the AACD to commence operation after arrival in an area was two (2) hours. Since this captured van has been in use the time has been decreased to one (1) hour. When further improvements are made on this van the setting up time will be decreased to thirty (30) minutes or less. A large van similar to the SCR-584 Van K-78 D should be provided for all AAODs operating with forward troops. This van would provide sufficient space to install a complete AACD that would be capable of operating immediately upon arriving in a new position and would also eliminate loss of time when loading for a move. In this operation the AACD has moved once every two days (average). These moves were necessitated by the rapid movement of all AAA units forward. If they had not been made, units would not have been within a distance from AACD consistent with the range capabilities of their radio equipment.

g. In future operations of this type, mobile smoke generators should be used to provide smoke protection for the beach area. On this operation smoke pots were used and were not successful in producing an adequate haze for this extended area, however, smoke pots are most useful in supplementing the smoke generator defense.

h. An AAA ordnance company should accompany the AAA Brigade on an operation of this type. On this operation one self-sustaining ordnance detachment of the company was placed in direct support of each Group and the company headquarters remained with and serviced Corps AAA. Under this system immediate ordnance service was available to all AAA units even though each Group was operating in its own independent area.

i. A command detachment composed of key officer and enlisted personnel of the AAA Brigade headquarters should land D Day and locate in the immediate vicinity of Corps Headquarters. This should be divided between the Corps command and alternate command ships while afloat. On "Operation Dragoon" many important decisions in regard to AAA were made by such a Brigade staff both aboard ship and ashore D Day which otherwise either could not have been made, or, would have caused a considerable delay if such a Brigade staff had not been immediately available to the Corps Commander and Group Commanders.

/s/ J. R. Townsend.
J. R. TOWNSEND.
Brigadier General, U.S.A.
Commanding.

3 Annexes:
#1 - VI Corps AAA Plan
#2 - Overlay, 90mm Gun Density Plan
#3 - Operations Memorandum No. 31, this headquarters, dated 2 Aug 1944.

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STANDING OPERATING PROCEDURE

HEADQUARTERS II CORPS

XIII - SIGNAL COMMUNICATION

1. Message Center.

a. A Signal Officer will normally be on duty at the Message Center at all times while in a combat status. He will be responsible for the proper distribution of messages not specifically addressed. All messages with any priority classification plus those routine messages which, in his judgement, should not be delayed, will be delivered to the addressee regardless of the hour at which they are received. When in doubt as to proper addressee the Message Center Officer will:

(1) At Forward Echelon: Consult G-3 representative.

(2) At Rear Echelon: Consult Adjutant General's representative.

b. Incoming messages will be routed as follows:

(1) Messages received at the Message Center not specifically addressed will be referred to the Message Center Officer for indicated routing of action copy. The message will then be delivered by the Message Center directly to the section or individual charged with action responsibility.

(2) The section or individual charged with action responsibility will extract any information he needs for immediate reference, indicate the distribution of action and information copies on the message, and send the original message to the Adjutant General for file and reproduction. All copies will clearly indicate the section or individual responsible for action taken. Information and action copies may be reproduced by the section responsible for action in accordance with foregoing. Original copy must go to the Adjutant General.

(3) The Adjutant General's Section will reproduce, address and deliver the necessary number of information copies.

c. Outgoing operational messages will be sent directly to the Message Center in sufficient copies to provide one for file and one copy for each addressee.

d. Messages which have multiple addressees will have a priority indicated for each addressee. If only one priority is indicated on the message, the copy to the action addressee will be sent with that priority and all others will go routine.

e. Messages left at the Message Center in sealed envelopes will be delivered by messenger only.

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2. Messenger Service.

a. Within Command Post Echelons.

All routine messenger service within a Command Post echelon will be furnished by the Staff Sections therein. Unless Staff activity requires more frequent service, Staff Sections will distribute from their Sections by direct delivery to other Sections, within the echelons, daily on the following schedule:

0600 hours	1400 hours
0800 hours	1600 hours
1000 hours	1800 hours
1200 hours	2200 hours

They will pick up Adjutant General's distribution at the echelon Adjutant General's Section on the same schedule.

b. Between Echelons.

(1) Messenger Service.

(a) The Signal Officer will establish a scheduled messenger service between all echelons of the Command Post.

(b) Special Messenger Service.

1. The Signal Officer will establish a special mounted messenger service at each echelon Message Center.

2. The Commanding General, Chief of Staff, Deputy Chief of Staff, and Chiefs of Staff Sections are authorized to call for special messengers from the echelon Message Center.

(2) Air Courier Service.

(a) If necessary, the Artillery Officer will establish air courier service between the Forward and Rear Echelons and the next higher headquarters in coordination with the Corps Signal Officer and the Corps Adjutant General.

(b) Necessary courier service between Headquarters II Corps and major subordinate headquarters will be established by the Corps Artillery and Signal Officers in coordination with subordinate units.

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3. Telephone:

a. When trunks are busy, calls may be booked with the Chief Operator. Local calls will not be booked.

b. Complaints about the telephone service will be made by telephone to the Chief Operator at the time they occur or in writing to the Signal Office. The operator on duty will not be reprimanded or engaged in extraneous conversation.

c. Failures in telephone equipment will be reported to the Wire Chief (SPEEDY 31).

d. Information concerning installations, use of commercial facilities, etc., may be obtained from the Corps Wire Officer (SPEEDY 45).

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4. Radio.

a. Periods of radio silence and of abnormal activity will be imposed during any phase of operation in accordance with coordinated schedules issued by this or higher headquarters. Special operational silences may be imposed or lifted on individual radio nets as dictated by the situation. Radio silence of any nets directed by the Corps Commander will be lifted only by authority of the Corps Commander or Chief of Staff.

b. Radio communication will not be used when other communication agencies exist which can provide the service required.

c. Radio messages will be sent in the clear only when, after careful consideration, the sender is certain that the information which can be intercepted by the enemy:

(1) Is of no importance to the enemy.

(2) If important, the enemy cannot possibly react to it in time to jeopardize the success of the associated operation or the safety of our own forces. The following officers of Headquarters II Corps are authorized to send messages in the clear: Commanding General, Chief of Staff, Deputy Chief of Staff, Chiefs of Sections and first assistants.

d. When wire communication is out, and radio telephone conversation is necessary, the officer concerned will go to the Radio Control Center. He will apply to the Radio Officer on duty for radio telephone service to the headquarters desired. His transmission will be given a precedence, by the Radio Officer, in accordance with the priority of his message and priority of other traffic awaiting transmission.

e. Conversations will be brief and whenever possible from prearranged notes.

f. Radio telephone transmission will be conducted strictly in accordance with: Staff Memorandum Un-numbered, Headquarters II Corps, "Summary of Radio Telephone Procedure Rules", dated 22 October 1943.

5. Security.

No special codes or ciphers other than those already prescribed by this or higher headquarters will be used without previous authorization.

794

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572

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HEADQUARTERS II CORPS
SIGNAL OPERATION INSTRUCTIONS

ITE No. 3c-1
Sheet No. 1 of 6
26 December 1944

EFFECTIVE: 0100A, 1 January 1945

ARMY CODE SIGNS

HEADQUARTERS CODE SIGNS

	1	2	3	4	5	6
Fifth Army Adv	DPT	XZB	ARD	SHY	SLX	LFF
Fifth Army Hq	UAO	YHB	LOB	ZBB	TNC	MOU
Fifth Army Rear Ech	NOT	RYC	NIT	AVE	ZAY	NVH
Fifth Army PRU	LBY	HIP	COK	GZH	RSR	DMH
II Corps Adv	MGX	VMP	PGL	HUU	WVB	EOO
II Corps Hq	UEJ	AKT	IDV	EDJ	MTX	RJN
II Corps Rear Ech	WHW	WDB	BDB	THM	AHJ	OQB
IV Corps Adv	WXJ	TYS	BPN	AUJ	PMP	AUJ
IV Corps Hq	ZOH	GZH	BST	TKB	MLX	TKB
IV Corps Rear Ech	IYB	ROL	VAA	WWQ	RXS	WWQ
10 AGRA Hq	TIF	DLQ	MIJ	FWG	WJT	EGX
2 Med Regt RA Hq	NNT	RWP	DCW	JCE	FOO	JEM
17 Med Regt RA Hq	MAS	SNR	INR	REW	WLJ	SVX
18 Med Regt RA Hq	EYL	AJS	NGK	KWL	ENV	TTV
1st Armd Div Hq	ZEV	TIC	LBC	VDA	UNB	FSV
34th Inf Div Hq	LUD	VJJ	LGB	GYN	NKE	KUM
85th Inf Div Hq	BUE	VDM	XFO	EYY	RGR	PZP
88th Inf Div Hq	DZK	UJC	HIB	XPT	MTM	VXC
91st Inf Div Hq	WIO	EQB	DHI	IKS	WSM	KHY
81st Cav Recn Sq Hq	RVV	DLK	BCF	FSV	NRB	LMS
365th Inf Regt Hq	GCN	KEH	EDF	BOU	UWR	OLX
71st AAA Brig Hq & Hq Btry	PPI	HDD	LZA	BKN	HQL	ZKC
360th AAA S/L Bn Hq	ZUT	PNU	MZE	CBK	UXF	HSE
II Corps Arty Hq & Hq Btry	WHT	NTH	HPR	XHU	LPJ	FAT
15th FA Obsn Bn Hq	FAL	NWE	GEP	FUA	IZI	GZK
173rd FA Bn Hq	JLT	YFC	DKT	EKN	EFP	NHI
77th FA Gp Hq & Hq Btry	KVF	WRQ	LCG	NJC	UJY	OJB
631st FA Bn Hq	VJL	DWJ	HRB	ELX	NGH	VYQ
936th FA Bn Hq	PAK	TXB	CPB	AZY	ASC	IXB
985th FA Bn Hq	PGR	LHF	BOG	AZO	CZY	SND
178th FA Gp Hq & Hq Btry	OUJ	VKP	PYN	XAG	DAX	FBI
178th FA Bn Hq	MPY	YXC	VPB	ZCF	WHY	YIC
248th FA Bn Hq	KIR	TRF	NYT	TUJ	PPI	BDA
633rd FA Bn Hq	EZA	ANI	BBU	NSU	LTJ	JGM
423rd FA Gp Hq & Hq Btry	REB	ITA	AKI	HJG	TZS	LLT
84th Cml Mortar Bn Hq	LBE	BGC	VKO	CEA	MTP	CEA
100th Cml Mtr Bn Hq	SVP	ZBZ	MCH	GHX	TTM	GHX
19th Engr Regt (C) Hq	RCT	VFY	DBK	AQB	JHD	AQB
39th Engr Regt (C) Hq	YDA	XHS	YJE	FCZ	YVA	FCZ
16th Armd Engr Bn Hq	ZEC	IIR	OLH	MNA	LOS	JON
235th Engr Bn (C) Hq	HPK	EDW	OQE	ATT	LPK	ATT
91st Cav Recn Sq Hq	HMX	QVT	GEJ	YOH	PHZ	YOH
752nd Tank Bn Hq	TOY	NVA	DZL	ZTP	JTP	TQP
755th Tank Bn Hq	AKE	LKD	SIH	EET	JOV	RER
757th Tank Bn Hq	RMT	WNO	DCH	LDR	EQI	XMN
765 701st TD Bn Hq	OPA	XYX	NVU	ILL	TPD	OOZ

543

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HEADQUARTERS II CORPS
SIGNAL OPERATION INSTRUCTIONS

ITEM NO. 3a-1
Sheet No. 1 of 4
26 December 1944

EFFECTIVE: 0100A, 1 January 1945

RADIO FREQUENCY ALLOTMENTS

The following Frequency Channels, and only the following will be used by units as designated:

1. HEADQUARTERS II CORPS	MAXIMUM POWER	FREQUENCIES
a. Corps Channel (C-1)	400 W	2160
b. Corps Channel (C-2)	400 W	2560
c. Corps Channel (C-3)	75 W	2015
d. Corps Channel (C-5) (Corps Troops)	400 W	4305
e. Corps Channel (C-6)	75 W	1940
f. II Corps Snow Net	25 W	2125

2. 1ST ARMORED DIVISION

400 WATT	25 WATT	25 WATT	25 WATT	25 WATT
2390	2285	2840	3425	4310
3830	2325	2885	3590	4335
3240	2510	2965	3930	4365
3910	2610	3105	3955	4380
10 WATT	2705	3350	4275	4460
2905				
4350				

3. 34TH INFANTRY DIVISION

75 WATT	25 WATT	10 WATT	
2365	2895	3965	4595
	2960	4070	4725
	3390	4125	4915
	3455	4185	5130
	3600	4230	5185

4. 85TH INFANTRY DIVISION

75 WATT	25 WATT	10 WATT	
3840	2860	3865	4630
	3950	3980	4955
	4270	4075	5145
	4295	4155	5170
	4330	4195	5230

756

534

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RADIO FREQUENCY ALLOTMENTS (Continued)

5. 88TH INFANTRY DIVISION

75 WATT	25 WATT	10 WATT	
4375	2515	3820	4620
	2585	3870	4680
	3945	3975	4700
	4170	4105	4730
	4290	4215	5195

6. 91ST INFANTRY DIVISION

75 WATT	25 WATT	10 WATT	
2830	1935	4360	5350
	2850	4430	5375
	3595	4490	5470
	3960	4645	5515
	4165	5200	5575

7. 71ST AAA BRIGADE

75 WATT	25 WATT	10 WATT	
1850	2475	3970	4625
2195	4005	4225	5355
2495			

8. 91ST CAV RECON SQDN

25 WATT
1815
2175
2320
2520
2710

9. 752ND TANK BN

25 WATT
1880

10. 755TH TANK BN

25 WATT
3940

757

535

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RADIO FREQUENCY ALLOTMENTS (Continued)

11. 757TH TANK BN

25 WATT

2650

12. 760TH TANK BN

25 WATT

2835

13. 19TH ENGINEER REGT

10 WATT

4085
4575
5275

14. 39TH ENGINEER REGT

10 WATT

3815
4500
5510

15. 84TH CHEMICAL MORTAR BN

10 WATT

4795

16. 100TH CHEMICAL BN (MTZ)

10 WATT

5125

17. 128TH SIGNAL RI CO (Det "A")

10 WATT

5410

536

758

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RADIO FREQUENCY ALLOTMENTS (Continued)

18. 365TH INFANTRY REGT

10 WATT

5025
5580

19. The following frequencies may be employed by U.S. units using Radio Sets SCR-511 and SCR-536, power limit 2 watts, use to be coordinated by division or brigade signal officer:

SCR-511		SCR-536		
3010	4845	3825	4495	5397.5
3825	5500	3885	4840	5437.5
3995	5880	3995	4930	5500
		4035	5205	5780
		4080	5327.5	

20. The following frequencies may be employed by U. S. AAA units using Radio Sets SCR-543, power limits 25 watts, use to be coordinated by brigade or group communications officer.

1746 Kc., 2131 Kc., 2467 Kc., 2665 Kc., 2725 Kc., 3422.5 Kc., 3807.5 Kc.

21. SCR-300 FM Channels are assigned in Item 3g.

22. SCR-500 FM Channels are assigned in Item 3h.

23. Frequency Assignments for SCR-600 FM series may be found in Item 3b.

24. Power classification of U. S. Radio Sets is as follows:

100 WATT	75 WATT	25 WATT
SCR-299	SCR-299 (Low Power)	SCR-193 (Rod ant)
	SCR-188	SCR-188 (Rod ant)
	SCR-177	SCR-177 (Rod ant)
	SCR-193 (Flat Top ant)	SCR-284 (Flat Top ant)
		SCR-543

10 WATT

SCR-284 (Rod ant)
SCR-245 (Rod ant)

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HEADQUARTERS II CORPS

ITEM NO. 2n-1
Sheet No. 1 of 1
26 December 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1945

AFCODE EDITION NUMBERS

1. The AFCODE editions listed below are for use between II Corps Headquarters, Division Headquarters, Division Artillery Headquarters, II Corps Artillery Headquarters, and within II Corps Artillery and separate Corps units. Units assigned or attached to a division will use AFCODE edition effective within the Division.

2. AFCODE Edition Numbers and Effective Dates are:

Upon Notification (Reserve) ..... #688

0100A 01 January to 0059A 04 January ..... #1370

0100A 04 January to 0059A 07 January ..... #1371

0100A 07 January to 0059A 10 January ..... #1372

0100A 10 January to 0059A 13 January ..... #1373

0100A 13 January to 0059A 16 January ..... #1374

3. Each edition will be destroyed not latter than 24 hours after it has been replaced.

4. The Signal Officer, II Corps will be notified by the fastest possible means should any edition of this code be compromised during the period in which it is in effect.

529

751

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HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0230B, 9 May 1944

ADDENDA NO. 1 TO ITEM 2r-2 -PYROTECHNIC CODE

In paragraph 4 add the following:

(b) Tank to Infantry - cannot advance, need Infantry- VIOLET Smoke Grenade, M-16.

(c) Infantry to Tank - cannot advance, need tanks - GREEN Smoke Grenade, M-16

(d) Tanks to Engineers- cannot advance, need engineers - RED Smoke Grenade M-16

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HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1945

ITEM NO. 1a-1
Sheet No. 1 of 2
26 December 1944

30

INDEX

TITLE OF ITEM	ITEM NO.	REMARKS
1. GENERAL		
(a) Index	1a-1	
(d) Distribution "S"	1c-1	
(d) General Communication Instructions	1d-1	
(e) Index to Regulations and Orders	1e-1	
2. CODES AND CIPHERS		
(a) Distribution of Codes and Ciphers	2a-1	
(b) Instr for use of Cipher Device M-209	2b-4	Dated 1944
(c) Cipher Keys for Cipher Device M-209	2c-1	
(d) Cipher Keys for Cipher Device M-209 (Field Arty Use Only)	2d-1	
(e) Instr for use of Comm Auth Cipher	2e-1	Dated 1944
(f) Communication Authentication Cipher	2f-1	
(j) Instructions for use of Map Reference Points Code	2j-1	Dated 1944
(k) Map Referenced Points Code		Issued Separately
(l) Map Reference Points Code (Field Arty Use Only)	2l-1	
(m) Instructions for use of AFCODE	2m-1	Dated 1944
(n) AFCODE Edition Numbers	2n-1	
(r) Pyrotechnics Code	2r-2	Dated 1944
(t) Prearranged Panel Identification Code	2t-2	Dated 1944
*(v) Supplement to Fire Control Code	2v-1	Dated 1944
*omitted - because TM 6-230 has been rescinded.		
3. RADIO COMMUNICATION		
(a) Radio Frequency Allotments	3a-1	
(b) FM Radio Channels	3b-8	Dated 1944
(c) Army Code Signs	3c-1	
(f) Arty and TD AM Frequencies	3f-1	
(g) SCR-300 Frequency Assignments	3g-13	Dated 1944
(h) SCR-500 Series FM Frequency Assignments	3h-5	Dated 1944
(i) Frequency Change Procedure	3i-1	Dated 1944
4. WIRE COMMUNICATION		
(a) Telephone Directory		Issued Separately
(b) Telephone Code Names	4b-21	Dated 1944
(c) Teletypewriter Call Signs	4c-7	Dated 1944
5. MISCELLANEOUS		
(a) Official Time	5a-2	Dated 1944
(b) Appointments Code	5b-1	Dated 1943

731

509

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HEADQUARTERS II CORPS

ITEM NO. 21-1
Sheet No. 1 of 1
26 December 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1945

MAP REFERENCE POINTS CODE

FOR FIELD ARTILLERY USE ONLY

NOTE: The following points are for use from 0100A, 1 January 1945 to 0059A, 7 January 1945:

AREA "L"	AREA "N"	AREA "T"	AREA "R"
Q 5090 F	L 7000 L	L 9050 I	M 1060 B
Q 6090 M	L 7010 P	L 9060 O	M 1070 N
Q 7090 D	L 7020 E	L 9070 R	M 1080 E
Q 8090 Q	L 7030 T	L 9080 A	M 1090 W
Q 9090 Y	L 7040 H	L 9090 U	M 2000 L
L 5000 I	L 7050 U	R 0090 V	M 2010 H
L 5010 N	L 7060 B	R 1090 N	M 2020 R
L 5020 J	L 7070 S	R 2090 G	M 2030 V
L 5030 C	L 7080 K	R 3090 W	M 2040 C
L 5040 R	L 7090 W	M 0000 M	M 2050 P
L 5050 A	L 8000 C	M 0010 F	M 2060 J
L 5060 O	L 8010 X	M 0020 T	M 2070 Q
L 5070 G	L 8020 J	M 0030 D	M 2080 K
L 5080 L	L 8030 A	M 0040 Q	M 2090 T
L 5090 B	L 8040 Y	M 0050 K	M 3000 F
L 6000 P	L 8050 G	M 0060 J	M 3010 D
L 6010 H	L 8060 R	M 0070 S	M 3020 X
L 6020 W	L 8070 V	M 0080 E	M 3030 S
L 6030 V	L 8080 I	M 0090 X	M 3040 Y
L 6040 S	L 8090 Q	M 1000 H	M 3050 A
L 6050 T	L 9000 D	M 1010 Y	M 3060 U
L 6060 E	L 9010 N	M 1020 B	M 3070 G
L 6070 X	L 9020 O	M 1030 P	M 3080 O
L 6080 U	L 9030 M	M 1040 L	M 3090 M
L 6090 K	L 9040 F	M 1050 C	M 4000 I

DIRECTION ENCODING TABLE

	E W N S
1 January	L D I B
2 January	F S M O
3 January	X T W E
4 January	N A R J
5 January	G V K U
6 January	Q H P C

526

748

- 1 -

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ITEM NO. 2f-1
Sheet No. 1 of 1
26 December 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1944

COMMUNICATION AUTHENTICATION CIPHER

1st January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
6	3	8	6	9	2	0	4	7	6	1	3	7	5	7	4	9	3	0	7	8	4	7	2	1	5
7	4	9	7	1	3	7	5	0	2	1	4	7	3	5	4	8	6	0	9	8	0	9	6	1	4
7	5	9	4	0	2	1	9	7	1	3	6	2	8	6	7	4	6	6	8	4	0	3	1	5	7
D	A	I	N	S	B	K	T	F	U	M	V	J	Y	X	W	E	P	Z	L	Q	C	O	R	H	G

2nd & 3rd January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
3	0	2	1	6	9	4	1	3	6	2	1	5	8	6	0	2	1	5	7	4	7	3	9	6	8
8	9	4	1	5	7	3	9	2	0	8	0	4	7	6	1	3	7	2	7	5	8	4	0	7	8
7	3	9	6	0	6	8	4	1	3	7	2	8	5	9	4	7	3	7	5	0	3	1	6	8	2
D	L	B	P	I	F	S	H	W	Z	C	Q	X	M	U	Y	N	V	G	R	T	O	A	J	E	K

4th & 5th January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	0	3	7	5	8	2	1	5	9	3	0	2	1	6	8	7	9	4	0	3	1	6	8	4	6
7	5	1	3	8	6	0	2	1	4	7	5	8	3	1	6	9	8	0	3	7	5	1	2	4	3
0	5	7	4	8	3	9	6	8	2	1	5	7	4	7	3	8	6	0	8	9	2	1	4	3	2
I	D	N	F	K	U	R	A	Z	P	V	T	W	E	X	Y	J	O	Q	B	L	S	G	M	C	H

6th & 7th January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
8	5	7	3	1	2	7	5	9	3	0	9	8	3	5	4	1	2	6	2	1	8	6	4	0	3
9	5	0	3	1	6	7	4	6	2	1	5	8	4	0	3	1	5	7	6	8	3	1	3	5	2
0	4	7	6	8	3	1	5	8	2	9	7	0	4	7	3	7	5	1	6	7	3	8	2	9	9
H	J	B	U	W	V	G	T	K	Z	C	X	I	Q	P	Y	A	R	L	F	O	N	S	D	M	E

8th & 9th January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
0	7	4	6	2	1	4	3	2	1	7	8	4	6	0	3	7	2	1	6	8	4	0	3	6	2
9	6	0	4	7	2	1	5	7	6	9	8	0	6	9	7	0	4	5	3	1	6	7	5	8	3
4	6	3	1	2	6	4	8	3	7	0	5	7	3	5	2	1	6	8	7	0	3	6	5	1	1
F	M	D	L	U	E	T	I	Q	W	A	Z	V	G	R	N	X	H	J	Y	S	B	O	K	P	C

10th & 11th January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
6	1	4	7	3	9	2	1	0	4	7	3	7	5	9	7	0	2	1	4	6	3	6	5	9	2
1	4	7	6	9	4	0	3	6	2	3	7	0	5	6	4	1	3	6	5	9	7	0	2	1	7
0	6	3	1	2	6	4	8	3	0	2	1	2	0	6	8	4	9	3	5	2	1	8	9	5	1
E	A	T	C	O	N	F	Z	Y	L	B	K	U	I	D	M	V	R	S	G	W	H	J	P	X	Q

12th & 13th January 1945

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
4	6	3	8	6	0	2	1	4	8	6	0	2	1	4	6	3	7	5	0	2	1	4	6	3	7
0	7	8	3	1	2	6	4	8	7	0	4	6	2	1	5	7	3	5	4	9	0	2	1	4	7
1	8	5	0	3	7	2	5	3	8	5	0	8	9	4	5	3	7	2	1	5	8	4	6	3	5
F	N	B	D	E	Z	C	M	W	X	L	Y	V	O	U	T	G	P	H	S	J	R	A	K	Q	I

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HEADQUARTERS II CORPS
SIGNAL OPERATION INSTRUCTIONS

ITEM NO. 1c-1
Sheet No. 1 of 1
26 December 1944

EFFECTIVE: 0100A, 1 January 1945

DISTRIBUTION "B"

	A	B	C
AFHQ	1	X	
AFHQ Monitoring Service	1	X	
A. A. I.	1	X	
Fifth Army	2	X	
II Corps Headquarters	13		
CG	(1)		X
C/S	(1)		X
G-2	(1)		X
G-3	(2)		X
G-4	(1)		X
Artillery	(2)	X	
Engineer	(1)		X
Signal	(4)	X	
IV Corps	3	X	
13 Corps (Br)	2		X
1st Armored Div	6	X	
1st Armored Div Arty	8		X
34th Infantry Div	6	X	
34th Infantry Div Arty	8		X
85th Infantry Div	6	X	
85th Infantry Div Arty	8		X
88th Infantry Div	6	X	
88th Infantry Div Arty	8		X
91st Infantry Div	6	X	
91st Infantry Div Arty	8		X

	A	B	C
71st AAA Brig	5	X	
10 AGRA	6	X	
Hq & Hq Btry II Corps Arty	6	X	
15th FA Obsn Bn	2		X
173rd FA Bn	2		X
423rd FA Gp Hq	4	X	
77th FA Gp	4	X	
631st FA Bn	2		X
936th FA Bn	2		X
985th FA Bn	2		X
178th FA Gp	4	X	
178th FA Bn	2		X
248th FA Bn	2		X
693rd FA Bn	2		X
19th Engr (C) Regt	4	X	
39th Engr (C) Regt	4	X	
701st TD Bn	2		X
804th TD Bn	2		X
805th TD Bn	2		X
53rd Signal Bn	15	X	
Det "A" 128th Sig RI Co	1	X	
84th Mort Chem Bn	1		X
100th Uml Bn	1		X
91st Cav Recon Sq	2		X

NOTE: "A" Receives all items listed on Index.

"B" Receives complete SOI less Items 2d and 21.

"C" Receives complete SOI less Items 2c, 2k, and 3a.

732 -1- 510

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C O N F I D E N T I A L

ITEM NO. 2a-1
Sheet No. 1 of 1
26 December 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1945

DISTRIBUTION OF CODES AND CIPHERS

	CCM	SIGABA			M-138-A			DOUBLE TRANS.				
	SIGESG	WAR	THEATER	JOINT	WAR	THEATER	JOINT	WAR	THEATER	BRITISH TYPE "X"	INTER-SERVICE BOOK	M-209-A
ALLIED FORCE HQ	X	X	X	X	X	X	X	X	X	X	X	X
A.A.I.	X	X	X	X	X	X	X	X	X	X	X	X
PENINSULAR BASE SECTION		X	X	X	X	X	X	X	X			X
SEVENTH ARMY	X	X	X	X	X	X	X	X	X			X
EIGHTH ARMY (Br)	X		X	X		X	X		X	X	X	X
FIFTH ARMY CP	X	X	X	X	X	X	X	X	X	X	X	X
FIFTH ARMY REAR		X	X	X	X	X	X	X	X			X
II CORPS	X		X	X		X	X		X		X	X
IV CORPS	X		X	X		X	X		X		X	X
1ST ARMORED DIV			X	X		X	X		X		X	*X
34TH INFANTRY DIV			X	X		X	X		X		X	*X
85TH INFANTRY DIV			X	X		X	X		X		X	*X
88TH INFANTRY DIV			X	X		X	X		X		X	*X
91ST INFANTRY DIV			X	X		X	X		X		X	*X
92ND INFANTRY DIV			X	X		X	X		X		X	*X
6TH SA ARMORED DIV			X	X		X	X		X	X	X	*X
BRAZILIAN FORCE (BEF)			X	X		X	X		X		X	*X
13 CORPS (Br)	X		X	X		X	X		X	X	X	X
1ST INFANTRY DIV (Br)										X	X	
8TH INDIAN DIV										X	X	
6TH ARMORED DIV (Br)										X	X	
78TH INFANTRY DIV (Br)										X	X	

*DO NOT HOLD FIFTH ARMY KEYS

739

-1-

517

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Item No. 2c-1
Sheet No. 1 of 3
26 December 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1945

KEYS FOR CIPHER DEVICE M-209

1. Cipher Keys for use on indicated days are as follows:

010100A to 020059A

Indicator FS

DRUM BAR LUG SETTINGS		KEY WHEEL PIN SETTINGS
DRUM BAR	LUG POSITION	Pins on letters listed below are to be placed to the right.
		1 2 3 4 5 6
1	1-0	A - A A - A
2	0-6	- B B B - -
3	4-6	C - C C C -
4	0-4	D - D - - -
5	4-5	E E E E E -
6	3-4	F F - - - F
7	3-0	G - - G - -
8	3-0	- H H - - H
9	3-5	I - I - - -
10	3-5	J J J J J -
11	3-5	- - - K - K
12	0-5	- - - L L L
13	0-5	M - M - M M
14	0-5	N - - N N -
15	2-5	- O - O O -
16	2-5	P - - - P P
17	2-5	Q - - Q Q Q
18	2-5	- - - R -
19	2-0	- S S - -
20	2-0	- - T -
21	2-0	- - - -
22	2-0	V V -
23	2-0	W X -
24	2-0	- -
25	2-0	- -
26	2-0	Z
27	2-0	

TWENTY-SIX LETTER CHECK:

WPOKW QIPMD QJYJI RNQWR XKQPN Q

743

020100A to 030059A

Indicator EO

DRUM BAR LUG SETTINGS		KEY WHEEL PIN SETTINGS
DRUM BAR	LUG POSITION	Pins on letters listed below are to be placed to the right.
		1 2 3 4 5 6
1	0-5	A - - A A A
2	0-5	B B - B - -
3	0-6	- - - C - -
4	0-6	D - D D - -
5	2-6	- - E - E E
6	2-6	- - - - F -
7	2-6	- - G G - -
8	1-6	H H H - - H
9	1-6	I - - - - I
10	1-6	- J - - - -
11	1-0	K - K K K -
12	1-0	- L L L L L
13	1-0	- M - M M M
14	1-0	- N N N N N
15	1-4	O - O - - -
16	1-4	- P - P P -
17	1-4	- - - - - -
18	2-4	- R - R R
19	0-4	S S S - S
20	0-4	- T T T
21	0-4	U - - -
22	0-4	V - V
23	0-4	W X -
24	0-4	- Y
25	0-4	- -
26	0-4	-
27	3-0	

TWENTY-SIX LETTER CHECK:

OWJXF WMZGO LXXCP TAARZ WVOGU L

521

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12 Lab

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ITEM No. 3g-13
Sheet No. 1 of 1
1 December 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 3 December 1944

SCR-300 FREQUENCY ASSIGNMENTS

1. For convenience of assignment and coordination, SCR-300 Frequencies are divided into groups as follows:

GROUP I			GROUP II			GROUP III		
a	b	c	a	b	c	a	b	c
9	3	7	8	5	2	4	1	6
15	21	18	17	10	20	11	14	12
35	29	24	25	33	31	16	28	19
38	36	26	32	40	39	22	34	23
	*37			*27			*30	

Spares, 0, 13

2. Groups will normally be assigned to divisions within a Corps in numerical order from left to right.

3.

UNIT	CHANNEL ASSIGNMENT
II Corps	13
1st Armored Division	14, 19
34th Infantry Division	Group II
88th Infantry Division	Group III
91st Infantry Division	Group I
100th Chemical Battalion (Mtz)	13

4. It is recommended that sub-groups be alloted within the divisions from left to right in alphabetical sequence. The frequencies marked * are not considered a part of any sub-group.

5. Long antennas will not be used where communication is possible with short antennas.

6. Special Changes of Frequencies:

a. Whenever one regiment is directed to take over the existing radio nets of another regiment, it will apply to SCR-300 frequencies as well as C.W. frequencies.

b. When interference occurs between regiments of different divisions, Division Signal Officers concerned will remedy it by mutual agreement if possible. If a mutual agreement cannot be reached, the case will be referred to the Corps Signal Officer.

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- 1 -

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HEADQUARTERS II CORPS

ITEM NO. 3f-1
Sheet No. 1 of 1
26 December 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 1 January 1945

ARTY AND TD AM FREQUENCIES

1. The following frequencies will be used by II Corps units as designated:

	UNIT	MAXIMUM POWER	FREQUENCIES
a.	Hq II Corps Arty	25 W	312Ø
b.	II Corps Arty (Fire Control)	25 W	41ØØ
c.	77th FA Group	10 W	3845 454Ø
d.	178th FA Group	10 W	4135
e.	423rd FA Group	10 W	4355
f.	15th FA Obsn Bn	10 W	419Ø
g.	804th TD Bn	25 W	17Ø5
h.	805th TD Bn	25 W	1955

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17-206

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HEADQUARTERS II CORPS

ITEM No. 4b-21
Sheet No. 1 of 2
21 November 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 26 November 1944

TELEPHONE CODE NAMES

Allied Armies in Italy	FILPOT
Fifth Army	LIGHTNING
PBS	VALUE
II Corps	SPEEDY
II Corps Arty	LIBERTY
15th FA Obsn Bn	VOTER
77th FA Group	STEEL
173rd FA Bn	VOLUMN
631st FA Bn	SLAUGHTER
935th FA Bn	LINSEED
936th FA Bn	BONNIE
178th FA Group	SHINGLE
178th FA Bn	STRAW
248th FA Bn	STROKE
939th FA Bn	SHELL
423rd FA Group	SAILFISH
633rd FA Bn	LUSTY
697th FA Bn	SHOTGUN
698th FA Bn	SUPREME
985th FA Bn	SUPERB
1st Armored Division	WARRIOR
Combat Command "A"	WARSHIP
Combat Command "B"	WARHAWK
1st Tank Bn	WALNUT
4th Tank Bn	WALRUS
13th Tank Bn	WEASEL
6th Armd Inf Bn	WAGON
14th Armd Inf Bn	WENTWORTH
81st Cav Recon Sqdn (Mtz)	WANDER
123rd Ord Maint Bn	WELDER
47th Armd Medical Bn	WARDROOM
141st Armd Signal Co	WELCOME
1st Armd Div Arty	WESTERN
27th Armd FA Bn	WESTBROOK
68th Armd FA Bn	WESTFIELD
91st Armd FA Bn	WESTWOOD
34th Infantry Division	WICKED
133rd Inf Regt	WISECRACK
135th Inf Regt	WINNER
168th Inf Regt	WIZARD
34th Signal Co	WIRELESS
34th Recon Troop	WING
109th Engr Bn	WITNESS
109th Medical Bn	WISHFUL
734th Ord Co	WONDER
34th Inf Div Arty	WIGWAG
125th FA Bn	WILLOW
151st FA Bn	WILDWOOD
175th FA Bn	WISDOM
185th FA Bn	WINDY
85th Infantry Division	HARPOON
337th Inf Regt	HEIGHT
338th Inf Regt	HAVEN
339th Inf Regt	HOIST
85th Signal Co	HARVEST
85th QM Co	HEAR
85th Recon Troop	HUNTER
310th Engr Bn	HURRICANE
310th Medical Bn	HAIL
785th Ord Co	HELP
85th Inf Div Arty	HOOK
328th FA Bn	HISTORY
329th FA Bn	HEATER
403rd FA Bn	HENRY
910th FA Bn	HARDING
88th Infantry Division	LEGION
349th Inf Regt	LEATHER
350th Inf Regt	LESSON
351st Inf Regt	LEGGING
88th Signal Co	LOYAL
88th QM Co	LEMON
88th Recon Troop	LEWIS
313th Engr Bn	LEEWAY
788th Ord Co	LOCKET
88th Inf Div Arty	LOOKOUT
337th FA Bn	LOBSTER
338th FA Bn	LOCATE
339th FA Bn	LOOPHOLE
913th FA Bn	LODE
91st Infantry Division	DARE
361st Inf Regt	DANDY
362nd Inf Regt	DERBY
363rd Inf Regt	DOMINO
316th Engr Bn	DUKE
91st Inf Div Arty	DYNAMITE
346th FA Bn	DELTA
347th FA Bn	DIAMOND
348th FA Bn	DART
916th FA Bn	DIPPER
91st Recon Troop	DALLAS

775

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-1-

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TELEPHONE CODE NAMES (Continued)

1st Armored Group	SCORE
2nd Chem Wpns Co	SAP
15th Evac Hosp	SHARP
19th Engr Regt	SEIGE
32nd Field Hosp	SALUTE
33rd Field Hosp	WREN
39th Engr Regt	RAKE
42nd Ord Bn	SUDDEN
53rd Signal Bn	SPARK
54th Medical Bn	SERUM
66th Engr Co (Topo)	SCRIPT
71st AAA Brigade	SWEDE
8th AAA Group	SWAY
67th AAA Bn	LABEL
401st AAA Bn	LADLE
403rd AAA Bn	SWIVEL
532nd AAA Bn	SWANSON
630th AAA Bn	SWOOP
209th AAA Group	SWERVE
105th AAA Bn	SWIPE
432nd AAA Bn	LADLESS
900th AAA Bn	LADDER
360th AAA S/L Bn	LIST
91st Recon Sqdn	SCOUT
100th Chemical Bn	SULPHUR
128th Signal RI Co "A"	STATIC
172nd Chemical Co	VICTORY
188th Ord Bn	SADDLE
87th Ord MM Co	SADDLE-WHITE
109th Ord MM Co	SMILE
202nd MP Co	SCRAP
701st TD Bn	HAVOC
751st Tank Bn	RACCOON
752nd Tank Bn	SCORE-BLUE
753rd Tank Bn	SAVAGE
755th Tank Bn	RASTUS
756th Tank Bn	CAMILE
757th Tank Bn	SMOKE RED
760th Tank Bn	SCORE-WHITE
776th TD Bn	WIDESPREAD
804th TD Bn	LOTION
805th TD Bn	SERPENT
1108th Engr Group	SPADE
48th Engr Bn	SCOOP
235th Engr Bn	STACK
1755th Engr Co	SATAN
3591st QM Co	SANDY

776

554

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12-106

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HEADQUARTERS II CORPS

ITEM No. 3b-8
Sheet No. 1 of 5
31 October 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 5 November 1944

FM RADIO CHANNELS

Note: This item supersedes Item No. 3b-7, which will be destroyed not later than 7 November 1944.

These channels are assigned and will be used in accordance with Fifth Army Training Memorandum No. 5C, dated 16 July 1943, and Amendment No. 1, dated 7 January 1944, Subject: "Use of SCR-608, 610, and 628 Radios."

ENCODE SECTION

Unit	"A" Channel	"B" Channel
Fifth Army	276	
II Corps Arty Hq	358	
II Corps Sig O	319,360	
IV Corps Sig O	273,337	
B.E.F. Arty	278	
34th Inf Div Arty	345	
85th Inf Div Arty	322	
88th Inf Div Arty	374	
91st Inf Div Arty	313	
92nd Inf Div Arty	333	
77th FA Group	308	
178th FA Group	389	
423rd FA Group	303	
424th FA Group	355	
2nd FA Bn (BEF)	311	343
125th FA Bn	334	289
151st FA Bn	368	377
173rd FA Bn	344	284
175th FA Bn	364	335
178th FA Bn	370	374
185th FA Bn	298	274
248th FA Bn	325	350
328th FA Bn	335	281
329th FA Bn	354	296
337th FA Bn	382	389
338th FA Bn	336	352
339th FA Bn	274	345
346th FA Bn	306	378
347th FA Bn	282	344
348th FA Bn	326	359
403rd FA Bn	366	341
597th FA Bn	277	353
598th FA Bn	300	329
599th FA Bn	309	367

760

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-1-

538

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FM RADIO CHANNELS (Continued)

Unit	"A" Channel	"B" Channel
600th FA Bn	331	312
631st FA Bn	314	295
633rd FA Bn	375	385
698th FA Bn	292	323
910th FA Bn	388	347
913th FA Bn	307	358
916th FA Bn	371	362
935th FA Bn	310	298
936th FA Bn	359	351
939th FA Bn	332	294
985th FA Bn	351	297
995th FA Bn	286	340
15th FA Obsn Bn	341	320,332,347,365
701st TD Bn	280	285,327,337,366
804th TD Bn	316	273,279,292,306
805th TD Bn	372	293,313,342,379
894th TD Bn	294	318,324,330,360
24th Cml Co		272,287
172nd Cml Co	281	338
179th Cml Co		383
759th MP Bn		271,278,322
337th Inf Regt Cannon Co	323	299
338th Inf Regt Cannon Co	275	386
339th Inf Regt Cannon Co	328	371
349th Inf Regt Cannon Co	288	317
350th Inf Regt Cannon Co	283	321
351st Inf Regt Cannon Co	301	355
755th Tank Bn	363	
403rd AAA Bn	386	
Air Support Control	315	339

DECODE SECTION

Channel	"A" Unit	"B" Unit
270		
271		759th MP Bn
272		24th Cml Co
273	IV Corps Sig O	804th TD Bn
274	339th FA Bn	185th FA Bn
275	338th Inf Cannon Co	
276	Fifth Army	
277	597th FA Bn	
278	BEF Arty	759th MP Bn
279		804th TD Bn

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12-246

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ITEM No. 3b-8
Sheet No. 3 of 5

FM RADIO CHANNELS (Continued)

DECODE-SECTION (Continued)

Channel	"A" Unit	"B" Unit
280	701st TD Bn	
281	172nd Cml Co	328th FA Bn
282	347th FA Bn	
283	350th Inf Cannon Co	
284		173rd FA Bn
285		701st TD Bn
286	995th FA Bn	
287		24th Cml Co
288	349th Inf Cannon Co	
289		125th FA Bn
290		
291		
292	698th FA Bn	804th TD Bn
293		805th TD Bn
294	894th TD Bn	939th FA Bn
295		631st FA Bn
296		329th FA Bn
297		985th FA Bn
298	185th FA Bn	935th FA Bn
299		337th Inf Cannon Co
300	598th FA Bn	
301	351st Inf Cannon Co	
302		
303	423rd FA Group	
304		
305		
306	346th FA Bn	804th TD Bn
307	913th FA Bn	
308	77th FA Group	
309	599th FA Bn	
310	935th FA Bn	
311	2nd FA Bn (BEF)	
312		600th FA Bn
313	91st Inf Div Arty	805th TD Bn
314	631st FA Bn	
315	Air Support Control	
316	804th TD Bn	
317		349th Inf Cannon Co
318		894th TD Bn
319	II Corps Sig O	
320		15th FA Obsn Bn
321		350th Inf Cannon Co
322	85th Inf Div Arty	759th MP Bn
323	337th Inf Cannon Co	698th FA Bn
324		894th TD Bn

540

762

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-3-

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FM RADIO CHANNELS (Continued)

DECODE SECTION (Continued)

Channel	"A" Unit	"B" Unit
325	248th FA Bn	
326	348th FA Bn	
327		701st TD Bn
328	339th Inf Cannon Co	
329		598th FA Bn
330		894th TD Bn
331	600th FA Bn	
332	939th FA Bn	15th FA Obsn Bn
333	92nd Inf Div Arty	
334	125th FA Bn	
335	328th FA Bn	175th FA Bn
336	338th FA Bn	
337	IV Corps Sig O	701st TD Bn
338		172nd Cml Co
339		Air Support Control
340		995th FA Bn
341	15th FA Obsn Bn	403rd FA Bn
342		805th TD Bn
343		2nd FA Bn (BEF)
344	173rd FA Bn	347th FA Bn
345	34th Inf Div Arty	339th FA Bn
346		
347		910th FA Bn; 15th FA Obsn Bn
348		
349		
350		248th FA Bn
351	985th FA Bn	936th FA Bn
352		338th FA Bn
353		597th FA Bn
354	329th FA Bn	
355	424th FA Group	351st Inf Cannon Co
356		
357		
358	II Corps Arty Hq	913th FA Bn
359	936th FA Bn	348th FA Bn
360	II Corps Sig O	894th TD Bn
361		
362		916th FA Bn
363	755th Tank Bn	
364	175th FA Bn	
365		15th FA Obsn Bn
366	403rd FA Bn	701st TD Bn
367		599th FA Bn
368	151st FA Bn	

541

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14-216

FM RADIO CHANNELS (Continued)

DECODE SECTION (Continued)

CHANNEL	"A" Unit	"B" Unit
369		
370	178th Fa Bn	
371	916th Fa Bn	339th Inf Cannon Co
372	805th TD Bn	
373		
374	88th Inf Div Arty	178th Fa Bn
375	633rd Fa Bn	
376		
377		151st Fa Bn
378		346th Fa Bn
379		805th TD Bn
380		
381		
382	337th Fa Bn	
383		179th Cml Co
384		
385		633rd Fa Bn
386	403rd AAA Bn	338th Inf Cannon Co
387		
388	910th Fa Bn	
389	178th Fa Group	337th Fa Bn

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HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

ITEM NO. 3h-5
Sheet No. 1 of 2
24 October 1944

EFFECTIVE: 0100A, 29 October 1944

SCR-500 SERIES FM FREQUENCY ASSIGNMENTS

1. SCR-500 FM Channel Assignments have been made in an attempt to bring interference to a minimum. Any interference will be reported to the Corps Signal Officer.

2. No Channels other than those assigned will be used.

ENCODE SECTION.

UNIT	CHANNEL
Fifth Army	76
1st Armd Div	All Channels except 76
34th Recn Tr	34, 42, 47, 51
85th Recn Tr	4, 10, 22, 31, 42, 50, 62, 64
88th Recn Tr	12, 23, 28, 42, 46, 58
91st Recn Tr	6, 20, 27, 40, 53, 64, 67
91st Recn Sq	9, 17, 21, 32, 37, 43, 48, 51, 54, 57, 60, 62, 63, 66, 68, 70, 75, 78
105th AAA Bn (SP)	6, 18, 23, 35, 57
432nd AAA AW Bn (SP)	3, 10, 24, 32, 41
751st Tank Bn	19, 26, 33, 38, 44, 52, 59, 67
752nd Tank Bn	4, 7, 8, 14, 19, 29, 47, 54, 58
755th Tank Bn	13, 18, 27, 31, 39, 47, 49, 53, 59, 70
757th Tank Bn	5, 8, 20, 22, 42, 52, 55, 58
760th Tank Bn	10, 25, 30, 33, 36, 45, 51, 55
776th TD Bn	59, 65, 69, 72, 78

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773 -1- 551

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12-206

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ITEM NO. 3h-5
Sheet No. 2 of 2

SCR-500 SERIES FM FREQUENCY ASSIGNMENTS (Continued)

DECODE SECTION

CHANNEL	UNIT	CHANNEL	UNIT
0		41	432nd AAA AW Bn (SP)
1		42	85th Ren Tr; 88th Ren Tr; 34th Ren Tr; 757th Tk Bn.
2			
3	432nd AAA AW Bn (SP)	43	91st Ren Sq
4	85th Ren Tr; 752nd Tk Bn.	44	751st Tk Bn
5	757th Tk Bn	45	760th Tk Bn
6	105th AAA Bn; 91st Ren Tr	46	88th Ren Tr
7	752nd Tk Bn	47	752nd Tk Bn; 34th Ren Tr; 755th Tk Bn
8	752nd Tk Bn; 757th Tk Bn.		
9	91st Ren Sq	48	91st Ren Sq
10	85th Ren Tr; 760th Tk Bn; 432nd AW Bn.	49	757th Tk Bn
		50	85th Ren Tr
11		51	760th Tk Bn; 91st Ren Sq; 34th Ren Tr
12	88th Ren Tr		
13	755th Tk Bn	52	751st Tk Bn 757th Tk Bn
14	752nd Tk Bn	53	91st Ren Tr; 755th Tk Bn.
15		54	752nd Tk Bn; 91st Ren Sq
16		55	760th Tk Bn; 757th Tk Bn
17	91st Ren Sq	56	
18	105th AAA Bn; 755th Tk Bn	57	91st Ren; 105th AAA Bn
19	751st Tk Bn; 752nd Tk Bn	58	752nd Tk Bn; 88th Ren Tr; 757th Tk Bn
20	91st Ren Tr; 757th Tk Bn		
21	91st Ren Sq	59	751st Tk Bn; 776th TD Bn; 755th Tk Bn
22	85th Ren Tr; 757th Tk Bn.		
23	88th Ren Tr; 105th AAA Bn	60	91st Ren Sq
24	432nd AAA AW Bn (SP)	61	
25	760th Tk Bn	62	85th Ren Tr; 91st Ren Sq
26	751st Tk Bn	63	91st Ren Sq
27	91st Ren Tr; 755th Tk Bn.	64	85th Ren Tr; 91st Ren Tr.
28	88th Ren Tr	65	776th TD Bn
29	752nd Tk Bn	66	91st Ren Sq
30	760th Tk Bn	67	751st Tk Bn; 91st Ren Tr
31	85th Ren Tr; 755th Tk Bn	68	91st Ren Sq
32	91st Ren Sq; 432nd AAA AW Bn (SP)	69	776th TD Bn
33	751st Tk Bn; 760th Tk Bn	70	91st Ren Sq; 755th Tk Bn
34	34th Ren Tr.	71	
35	105th AAA Bn	72	776th TD Bn
36	760th Tk Bn	73	
37	91st Ren Sq	74	
38	751st Tk Bn	75	91st Ren Sq
39	755th Tk Bn	76	Fifth Army
40	91st Ren Tr	77	
		78	776th TD Bn; 91st Ren Sq
		79	

774 CONFIDENTIAL 552

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12-206

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ITEM NO. 4c-7
Sheet No. 1 of 1
17 October 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 22 October 1944

TELETYPEWRITER CALL SIGNS

Teletypewriter Call Signs as indicated below will be used by units as designated:

HEADQUARTERS	CALL LETTERS
Fifth Army	LQAO
Fifth Army Advance	LOJX
Fifth Army Rear	LOGU
II Corps CP	LIAI
II Corps Advance	LIGO
II Corps Rear	LIKS
IV Corps CP	LOOC
IV Corps Rear	LOEF
13 Corps (Br)	MCO
1st Armd Division CP	LIHP
34th Infantry Division CP	LIJR
85th Infantry Division CP	LMMY
88th Infantry Division CP	LONB
91st Infantry Division CP	LOXL
128th Signal R.I. Co. Det "A"	LISA-1

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12-106

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HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

ITEM NO. 5a-2
Sheet No. 1 of 1
19 September 1944

EFFECTIVE: 0100A, 24 September 1944

OFFICIAL TIME

1. GMT time plus one hour ("A") will be used for all communications within and between all units of the II Corps.

2. TIMES MENTIONED IN A MESSAGE ARE IN ALL CASES TO BEAR A TIME ZONE SUFFIX LETTER. The only occasion when this suffix may be omitted is if the Zone Description is stated separately in the text, e.g., "All times are G.C.T. (G.M.T.)

3. Time Zone Suffixes to be used are as follows:

SUFFIX	HOURS TO BE SUBTRACTED TO OBTAIN G.C.T. (G.M.T.)
Z	0
A	1
B	2
C	3

NOTE: If two letters are used, it indicates that a time zone half way between two standard zones is in use. Detailed information on the use of times and the time zone suffixes may be obtained from British War Office Pamphlet "Timeing of Messages", 29 July 1942.

4. It will be SOP for all II Corps units down to and including regiments, to obtain by radio and have official time at their message centers.

5. The official time throughout II Corps will be based on the Greenwich Time Signal obtained on the following frequencies at the hours shown:

TIME	FREQUENCIES (Kc)
0800A	11750 - 17810
0900A	15390 - 17810
1200A	17870 - 21470
1300A	17870 - 21470
1400A	17870 - 21470
1500A	17870 - 21470
1600A	17870 - 21470
1700A	11750 - 15260 - 17810
1900A	11750 - 11860 - 15260
2100A	9600

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2. Message Center.

a. General.

(1) Corps, divisions, and regimental Message Center Chiefs will keep posted up-to-date a sketch or map showing the location of the Message Center of the next higher, adjacent, and subordinate units.

(2) Messages with multiple addressees will have a priority indicated for each addressee. If only one priority is indicated, the copy to the action addressee will be sent with that priority and all others will go routine.

(3) Whenever it is necessary to relay a message, the Message Center will always obtain a receipt from the signal agency at the Command Post of the addressee. The originating Message Center may keep a record of the time cleared to the intermediate station, but it will carry the message in its live file and not indicate it in the Message Center register as "Cleared" until a receipt is obtained at the terminal station. When circumstances require an acknowledgement from the addressee, the procedure for obtaining same is unchanged.

b. Messenger Service.

(1) Except on the march, scheduled messenger service will be maintained from Command Posts of Corps, divisions and separate brigades to their rear echelons and to Command Posts of next subordinate units.

(2) Normally, scheduled messengers will leave the Corps Command Post three times daily for divisions, Corps rear echelons, and Corps separate units, in accordance with schedules to be published.

(3) All messengers will report promptly to each Message Center Chief all changes in Command Posts observed along their routes. Message Center Chiefs will habitually inquire of all messengers of any changes which pertain to the operation of the Message Center, such as locations of Command Posts, conditions of roads, etc.

(4) Messenger vehicles will be marked as such while delivering messages and will be given priority on roads when traveling singly.

c. Pigeon Communication.

(1) The Unit Message Center is the agency designated to receive pigeons when distributed by the Signal Pigeon Company Personnel.

(2) Each pigeon released will carry a duplicate of any next preceding message sent by pigeon from that Message Center within a preceding 12 hour period.

781

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(3) Pigeon messages will be cryptographed unless the words "send in clear" over the signature of the writer appear on the face of the message.

3. Cryptography.

a. Use of cryptographic systems:

(1) SIGABA will normally be used between Corps Headquarters and subordinate units equipped with it.

(2) Converter M-209 will normally be used when SIGABA is not held.

(3) M-138 (Strip Cipher) will only be used in emergency where other systems of the same degree of security cannot be used.

(4) Division Field Code (DFC) and Air Ground Liaison Code (AGL) will not be used by units of II Corps.

(5) Other authorized codes are British Typex, and those included in II Corps Signal Operating Instructions.

(6) No other codes or ciphers will be used without prior approval of this headquarters.

b. Cryptographic Security.

(1) In the event capture appears imminent, cryptographic documents and devices will be destroyed. If time does not permit destruction of cipher devices, disc and alphabet strips will be disarranged.

(2) The loss or compromise of any code or cipher will be reported immediately to higher authority and all headquarters affected in the highest grade of cipher available. Notification of the destruction of codes and ciphers to higher authority is second only in importance to the destruction itself. Notification will be sent by any means, including radio in clear if no other means is available.

(3) Signal Security Officers will be provided by units concerned at headquarters as follows:

Headquarters II Corps - One (1) Captain (Signal Corps)

Headquarters Division - One (1) Lieutenant (Cryptographic Officer).

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4. Radio.

a. Establishment of the radio nets shown in appendix 1, a, b, and c is routine.

b. (1) The term "Radio Silence" indicates the following procedure:

(a) All radio transmissions are prohibited including those necessary to establish nets.

(b) Radio sets will be installed in readiness for operation.

(c) Operators will maintain constant watch on the frequency assigned to the net which they usually operate.

(2) The term "Radio Restricted" indicates the following procedure:

(a) Transmissions necessary to establish nets to proper frequency are permitted.

(b) Only urgent and operational priority messages are authorized for transmission unless wire communication between stations of addressee and writer is lacking.

(3) The term "Radio Activity" indicates that during periods so designated the maximum amount of traffic possible will be handled by radio. Where actual message load is insufficient to load radio nets, "dummy" traffic will be used. Such traffic will be in normal message form and will indicate the word "dummy" within the text.

c. Radio silence will be imposed during phases of combat operations in which concealment from the enemy of the presence, movement, or location of a unit is desired, and during such other periods as the Corps Commander may direct. During periods of radio silence, G-2, in coordination with the Signal Officer, will arrange for necessary counter intelligence radio traffic. However, when Corps Commander orders radio silence, dummy traffic will be broadcast on Corps Commander's approval only. Radio silence may be imposed or lifted on individual radio nets as dictated by the situation. Radio silence of any nets directed by the Corps Commander will be lifted only by authority of the Corps Commander or Chief of Staff.

d. Air Support Radio Nets within a division will normally be a division responsibility and at division and Corps Headquarters, an Air Force responsibility.

e. Radio transmissions will be restricted to those required in carrying on authorized official communications and will be made with the minimum power output consistent with satisfactory operation. Radio will not be used if telegraph or teletypewriter is available and not saturated.

783

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f. Except in cases of extreme emergency no station will leave a radio net without first sending a service message to the Net Control Station stating reason for leaving and approximate time of re-establishing communication, if known.

(1) Notification may be made by any means.

(2) In cases of emergency where prior notification is impossible, stations leaving net will notify Net Control Station as quickly as possible after leaving the net by whatever means is available.

g. Any station losing contact on its designated Corps channel will immediately try to re-establish communication on any other Corps channel in operation and will then receive instructions from the Net Control Station. A similar procedure will be followed in subordinate units.

h. Interference reports will cite as a minimum the call letters and frequency of the interfering station, the time that the interference was encountered, the activity of the interfering station and signal strengbh employing the S-5 scale. These reports will be forwarded promptly to the II Corps Signal Officer regardless of action taken by lower units to correct the interferance.

i. Signal and unit communications officers will assure themselves that all radio operators are thoroughly familiar with the use of Frequency Meter SCR-211 and that all stations are checked at least twice daily during operations, preferably once during the night and once during the day. The Net Control Station of each net is responsible for establishing and maintaining the assigned net frequency within ± 1 kc.

j. All vehicular radios of the following types: SCR-193, SCR-245, SCR-284, SCR-299, SCR-506 and SCR-543, will, insofar as practicable, be equipped with material to construct an auxiliary antenna for use when vehicle is stationary and increased range is required.

k. Upon receipt of an air alert all Corps radio stations will cease transmission, except for the following:

(1) Communications vitally essential to tactical operations including stations in the AAAIS nets.

(2) RADAR and RDF stations essential to aircraft operations.

(3) RADAR, RDF, or Radio Beacons essential to aircraft operations.

l. Operators will be reminded that enemy intercept stations are on continuous watch. All transmissions will be as short as possible and service messages kept to a minimum. When "tuning up" transmitters every effort will be made to reduce duration of carrier emission. Unofficial operator's "chat" is prohibited at all times.

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m. Each vehicular radio station team will be capable of cryptographing and decryptographing messages during movement, using Converters M-209. Radio operators will be prepared to operate the Convertor M-209 as well as their radios.

n. All concerned will exercise caution to prevent whip antennas from touching any overhead lines. Fatal accidents have occurred due to antennas contacting high voltage lines.

5. Wire.

a. Installation and operation of circuits shown in appendix 2 is routine.

b. The "construction center" type of installation (paragraph 208, FM 24-5) will be used at division and Corps Headquarters.

c. Divisions may use open wire commertial lines (including civilian circuits in use) forward of Division Command Posts without prior permission. A report of the number of circuits to be used, the pin positions to be used, and a line route map or other means of designating the line used will be submitted to the Corps Signal Officer immediately. Lines leading into enemy territory will be interrupted at a terminal (not cut), short circuited, and grounded to prevent enemy use. Poles or wire will not be removed without authorization of the Corps Signal Officer.

d. In rehabilitating open wire lines, the same pole pins will be used throughout insofar as is practicable. Similarly, in removing open wire for salvage, it will be removed from the same pins throughout whenever possible.

e. A report by informal memorandum or telephone call will be made to the Corps Signal Officer of any appreciable stretches of serviceable open wire or cable discovered in forward areas or of enemy signal installations and supplies captured. Office records will be kept intact.

f. Three (3) copies of unit telephone directories, traffic diagrams, and circuit diagrams will be submitted initially to the Corps Signal Officer and changes reported when they occur.

g. Line route maps as of 1200B hours will be submitted so as to reach the Corps Signal Office by 1600B hours daily. Maps only showing the changes from the preceding day are acceptable. If no changes are made, a message to that effect is sufficient.

h. Spiral-4 cable and long range field wire circuits no longer in use will be recovered as soon as possible. The Corps Signal Officer will be notified before hand, however, in order to enable him to take over the circuits if desired.

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i. Unless otherwise stated, when telephone circuits are to be simplexed for telegraph or teletypewriter, the lowest numbered circuit will be simplexed. When this line goes out the simplex equipment will be installed on the next lowest numbered circuit and contact established without further orders.

j. As soon as wire communication is established between any two points where telegraph or teletypewriter sets are to be installed, the Wire Chief at the higher unit will arrange with the Wire Chief of the lower unit a schedule for the installation and testing of the telegraph or teletypewriter set. This procedure will be followed both in the case of initial installations and in the case where telephone communications are re-established after a movement of the Command Post.

k. Field wire lines will always cross <u>under</u> power lines and open wire lines.

l. The following symbols, indicating mine free paths along overhead wire routes, will be drawn boldly in white chalk on the poles carrying the route:

(1) On the road side of the pole:



Pole swept for eight feet all around.

4 foot path swept between road and pole.

4 foot path swept to pole in direction indicated.

(2) On the track (path or trail) side of the pole, if a track (path or trail) runs along the route in addition to the road:



Whole track (path or trail) along side poles swept

End of swept track.

6. <u>Signal Supply</u>.

See Section IV, Annex No. 1.

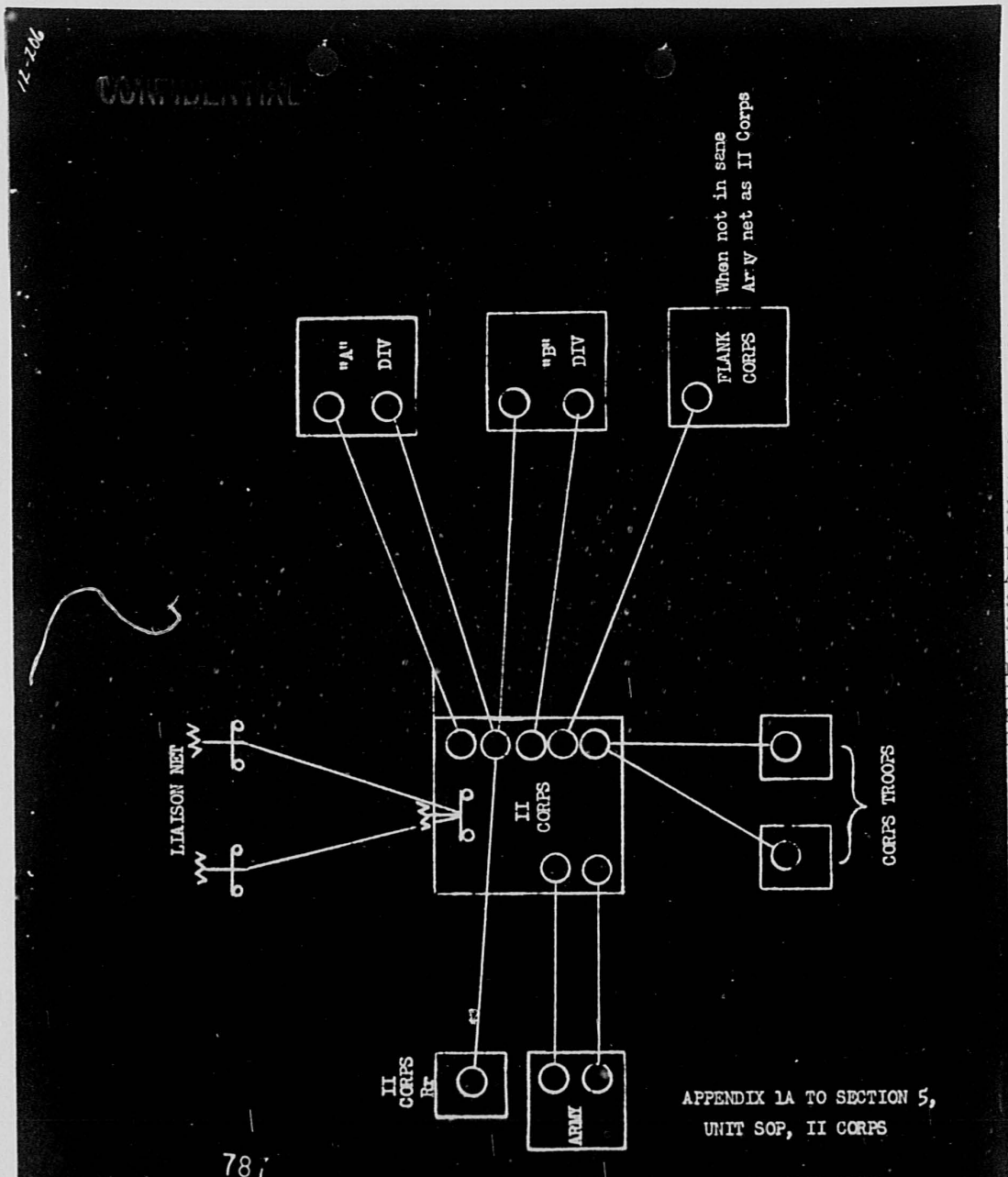
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APPENDIX 1A TO SECTION 5,
UNIT SOP, II CORPS

NORMAL RADIO NETS
ESTABLISHED BY II CORPS

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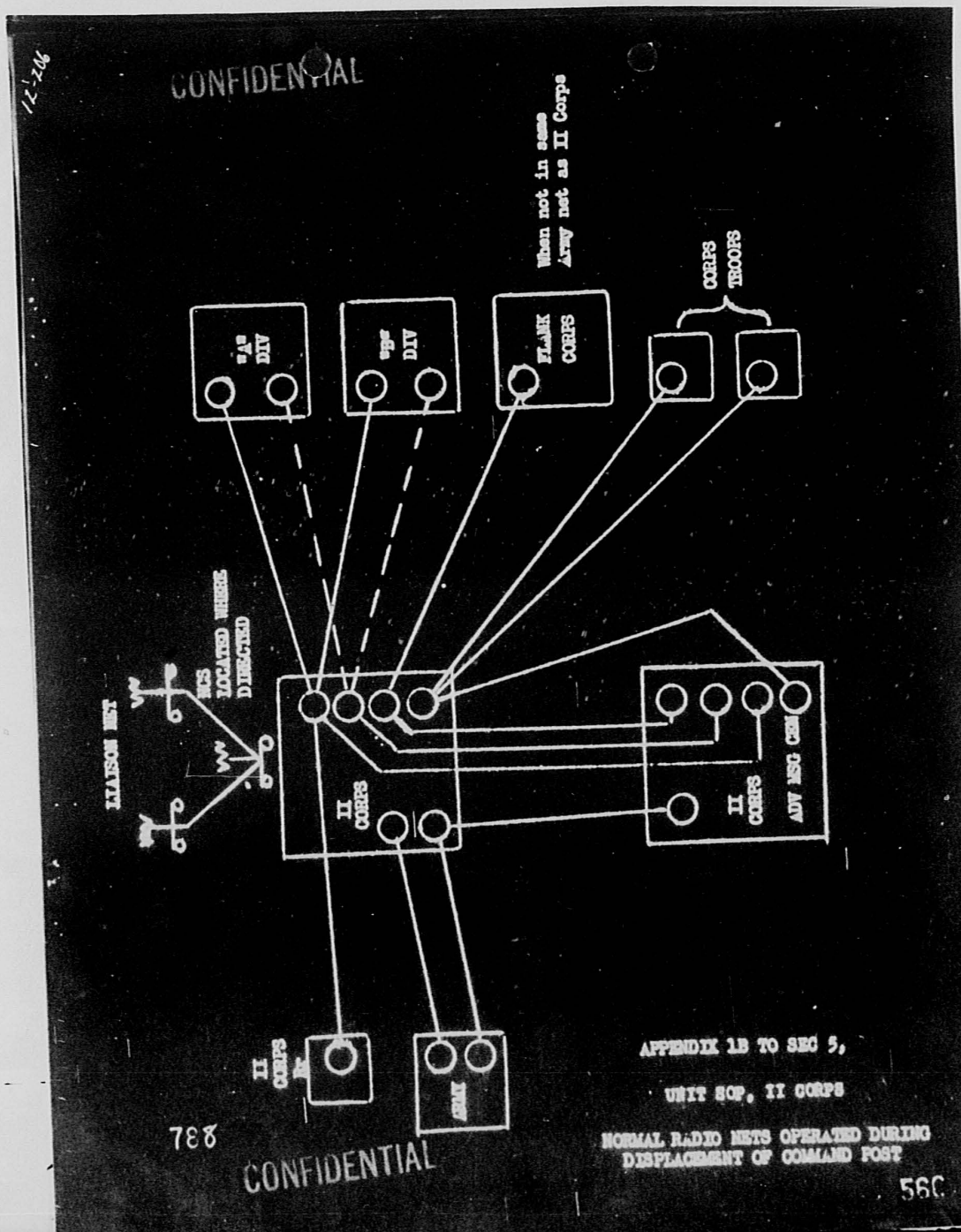
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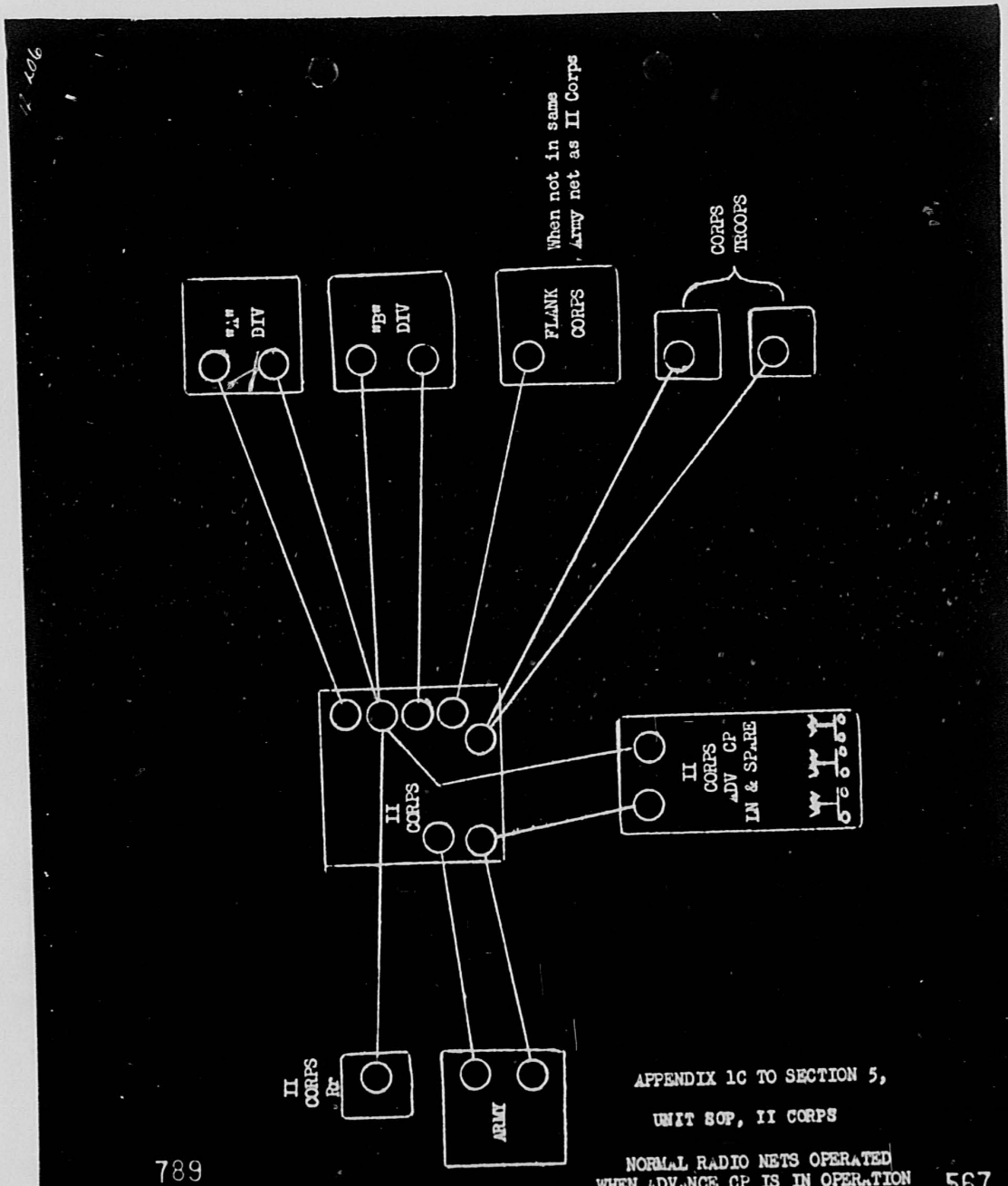


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APPENDIX 1C TO SECTION 5,

UNIT SOP, II CORPS

NORMAL RADIO NETS OPERATED WHEN ADVANCE CP IS IN OPERATION

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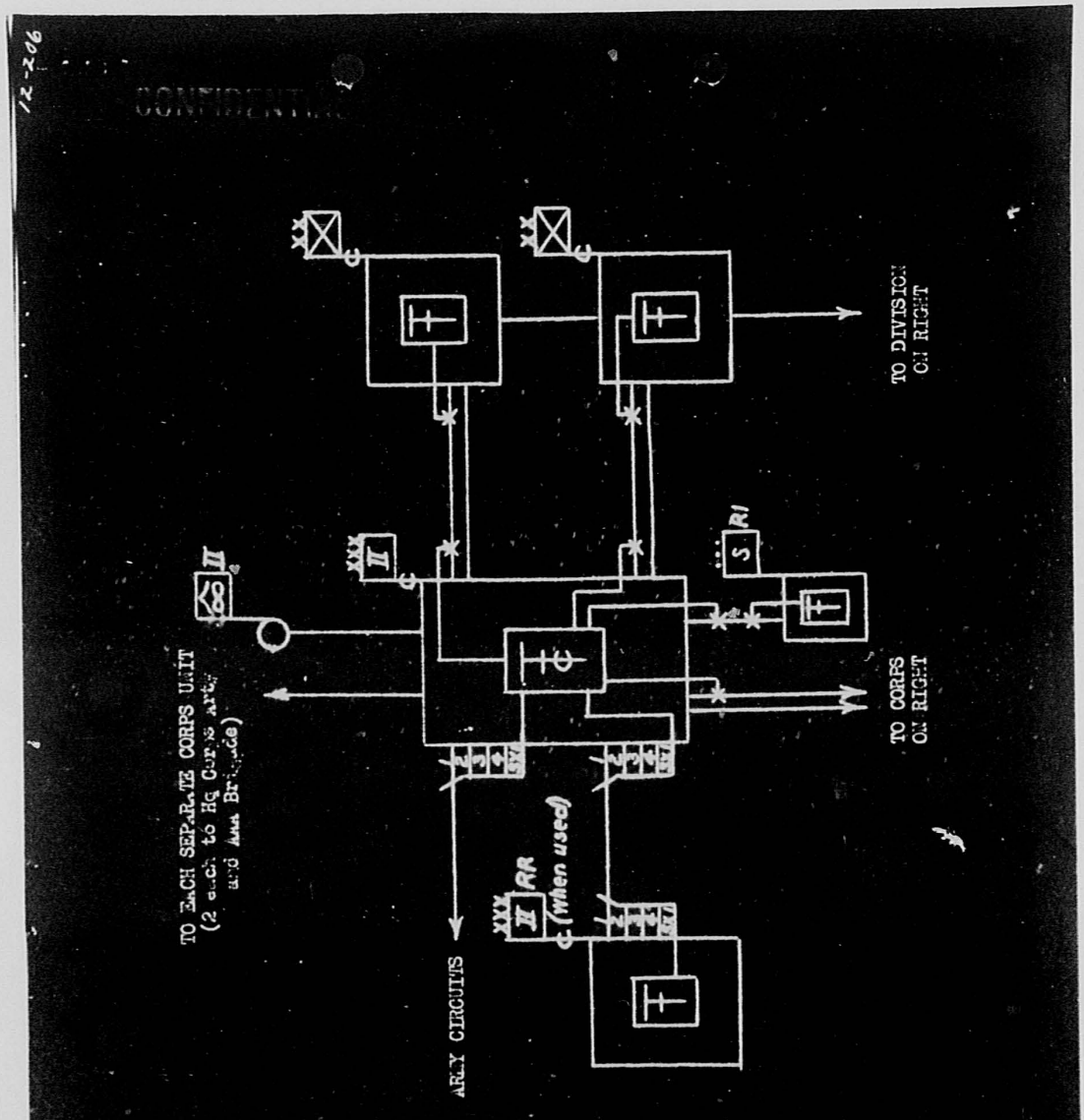
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12-206

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APPENDIX 2
to
Sec 5, Unit SOP, II Corps
NORMAL WIRE CIRCUITS
ESTABLISHED BY II CORPS

790

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568

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12-106

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ITEM No. 2t-2
Sheet No. 1 of 2
29 August 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

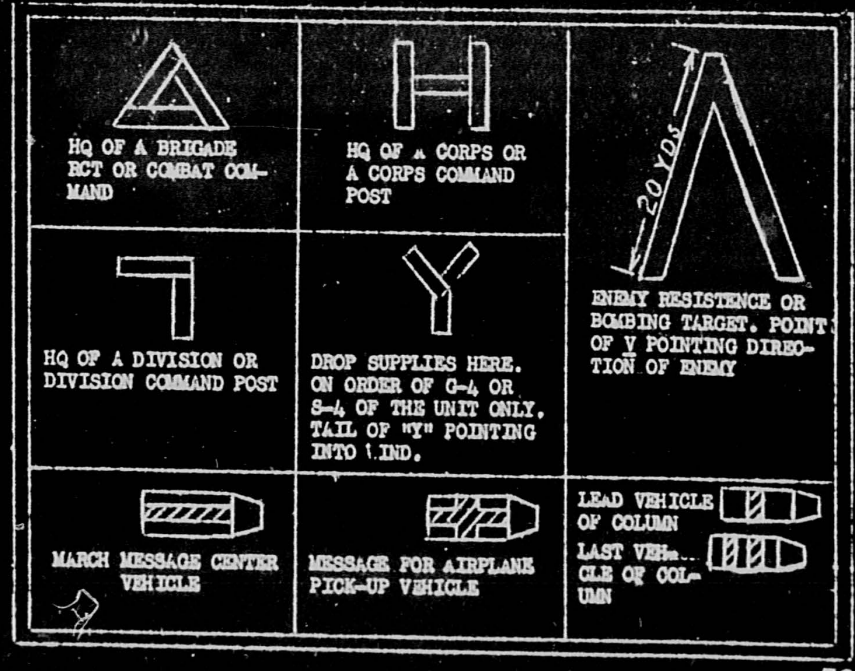
EFFECTIVE: 0200B, 3 September 1944

PREARRANGED PANEL IDENTIFICATION CODE

1. The following Prearranged Panel Identification Code is used for the identification of Headquarters. The numerals assigned to the Divisions will be used in conjunction with the Prearranged Panel Identification Code to definitely identify a Headquarters of a division or regiment within II Corps.

2. Numerals will be made as shown in C.C.B.P. 8, but when used with this Prearranged Panel Identification Code will serve only as an identification of a unit.

3. A pilot wishing a Headquarters to display its identification panels will gun the motor three times over the C.P.



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ITEM No. 28-2
Sheet No. 2 of 2

PANEL IDENTIFICATION CODE (Continued)

4. The primary means of air-ground identification will be:

a. Yellow or white star markings on vehicle and aircraft.
b. Pyrotechnics (See S.O.I. Item No. 2).
c. Special panel arrangements, size, color and material, depending upon the situation, may be used as shown on Sheet No. 1 only.
d. Yellow smoke and/or yellow panels will habitually indicate friendly troops and friendly front lines.

5. The following assignments of numerals will be used for Division Headquarters Identification. The numeral will be displayed approximately ten feet below the division identification panel.

UNIT	ASSIGNMENT
34th Infantry Division	32
85th Infantry Division	69
88th Infantry Division	19
91st Infantry Division	29

6. The following block assignment of numerals will be used within the division for Regimental Headquarters Identification. A number from this [illegible] will be assigned to each Regiment of the Division. When a Regiment is reassigned to another Division, the numerical assignment to that unit will be discarded approximately ten feet below the base of the Regimental identification panel.

UNIT	BLOCK ASSIGNMENT
34th Infantry Division	31 to 35
85th Infantry Division	01 to 05
88th Infantry Division	11 to 15
91st Infantry Division	21 to 25

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12-206

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HEADQUARTERS II CORPS

ITEM NO. 2m-1
Sheet No. 1 of 2
15 June 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0200B, 25 June 1944

INSTRUCTIONS FOR USE OF AFCODE

1. GENERAL

a. AFCODE is a two part radio-telephone code prepared by AFHQ and distributed to tactical units. A sufficient number of editions will be distributed by Army to allow each corps, division and Army to put a new edition into use every three days (or sooner if an edition is compromised and distribution can be effected). When a corps or division is in reserve or in such a position that this code is not being actively used, the current edition will remain in effect, for training purposes, as long as this situation exists. The same plain-text vocabulary and the same code groups are used in all editions, but the code groups of each edition are thoroughly scrambled.

2. DESCRIPTION

a. The encode and decode sections are each printed on a single legal-sized sheet, with four plain-text columns and the corresponding code columns on each page. The vocabulary consits of 421 meanings (with variants for the most common ones), two alphabets (each containing variants for the highest frequency letters) and six sets of numerals from Ø to 9. To facilitate operation one alphabet and three sets of numerals are printed on each side of the Encode sheet. These are in the same columns as the vocabulary, so that there is no need for the "spell on", "spell off", "figures on","figures off" process required in some radio-telephone codes. The code groups are digraphs. On the Decode sheet the digraphs are printed in a strictly alphabetical order.

3. DISTRIBUTION

a. Distribution will be prescribed by the Signal Officer concerned. In general it is intended that AFCODE will be held by all users of Radio-Telephone, except for those units whose codes are certain to be physically compromised. These units will use a prearranged message code of the same type as AFCODE.

b. AFCODE instructions and code will be issued as an S.O.I. item. A weekly S.O.I. item will give the edition numbers and the effective dates of the codes to be put into use.

c. At least two reserve editions of the code will be held at division level.

4. METHOD OF USE

a. AFCODE is not intended for ad lib conversations. Whenever time permits, the calling party will write out in code the message he wishes to send before making his call. The called party will then write out in code the answer he wishes to make before replying. The phonetic alphabet will be used in the actual voice transmission.

b. A mixture of plain and code language is not permitted, since such a mixture inevitably provides clues as to the meanings of the code groups.

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INSTRUCTIONS FOR USE OF AFCODE (Continued)

c. As few words as possible will be spelled out. However, when spelling is employed alternate code words will be used for double letters.

(1) Locations should be given by map coordinates, not by spelling place names.

(2) When a desired word does not appear in the vocabulary, every effort should be made to find a synonymous expression, rather than spelling out the missing word. The vocabulary is sufficient to make most tactical military messages possible with little necessity for spelling; but it does not provide many ways for saying the same thing. A thorough knowledge of the contents of the code and practice in its use will pay big dividends in rapid and satisfactory communication.

d. Variants are provided for letters, numerals, and some high frequency words. It is essential that all variants be used with approximately equal frequency.

e. Words are given in their simple form. If it is clear from the context that a plural, past, or participle meaning is intended, the simple form will be used. When doubt might exist, the code group for the simple form will be followed by the group for S, ING, ED, or whatever is needed.

f. The edition number will be used as an indicator only when unusual circumstances make it necessary, and not as a routine procedure.

g. Below battalion, map references will be encoded by AFCODE on both C/W and R/T when AFCODE is held. Above battalion, map references will be encoded by the M-209 on C/W and by AFCODE on R/T.

5. SECURITY

a. Any short code such as AFCODE can be broken by enemy analysts in a few days if sufficient traffic is available. However, the fact that a number of editions will be used simultaneously, and each edition for only three days, will make the problem of solution very difficult. The fact that messages encoded by different editions will have the same external appearance adds another serious difficulty for the enemy. It is therefore believed that AFCODE is sufficiently secure for its authorized use as a radio-telephone code. It is not authorized for use over C/W above battalion except in genuine emergencies, where no more secure means of encipherment is available.

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HEADQUARTERS II CORPS

ITEM NO. 2r-2
Sheet No. 1 of 1
8 May 1944

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0200B, 9 May 1944

PYROTECHNIC CODE

1. COLORED SMOKE GRENADE SIGNALS.

a. Friendly Troops - Yellow smoke.
b. Other colors may be used for specific missions.

2. COLORED SMOKE SHELL SIGNALS.

a. Colored smoke shells will NOT be fired into friendly areas.
b. Yellow smoke shells will not be used. Any now in hands of units will be returned to an ordnance ammunition dump.
c. Red and Orange will be used interchangably due to the difficulty of distinguishing between the two colors.
d. White may be used in combination with colored smoke.
e. Infantry boundaries will be marked by three successive rounds of one or more colors fired at an interval of from 40 to 50 seconds.
f. Infantry objectives will be marked by a four or more round volley of one or more colors fired simultaneously.
g. Targets will be designated to ground or air OP observers by two rounds of one or more colors, fired successively at an interval of from 5 to 10 seconds.
h. Spotting and Adjusting rounds will be single rounds with candles of one or more colors.
i. No signal will be repeated at an interval of less than two minutes.
j. All signals designating infantry boundaries or objectives and any other signals which may confuse other units will be coordinated laterally and information sent to the common higher headquarters. Responsibility of coordination rests with the unit using the signal.

3. AIR TO GROUND PYROTECHNIC SIGNALS.

a. Display identification - Green Verey from aircraft.
b. Request for friendly troops to show yellow smoke - White Verey light from aircraft.
c. For acknowledgement aircraft will waggle its wings.
d. Ground to air recognition will be yellow smoke grenades or flares (Br.) T.R. yellow. Yellow flares or smoke will not be used for any other purpose.

4. GROUND PYROTECHNIC SIGNALS.

a. Lift your fire from this point. You are firing too close to friendly troops - Signal Ground M19A-1, Green Star Para.

5. Commanders of subordinate units may prescribe the use of any other pyrotechnic signals of any type, color, and meaning as required. Pyrotechnic Signals will be changed periodically for security reasons. Naval and/or Air Forces operating in the vicinity should be notified in advance of changes.

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12-206

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ITE No. 2j-1
Sheet No. 1 of 2
28 March 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0100A, 2 April 1944

INSTRUCTIONS FOR THE USE OF THE MAP REFERENCE POINTS CODE

1. FIFTH ARMY MAP REFERENCE POINT CODE, (Item 2f-( ), SOI, Hq Fifth Army) will be used between Fifth Army Headquarters, Corps Headquarters, and Division Headquarters. It will also be used within and between all Army and Corps troops. The Signal Officer, II Corps will furnish each Communications Officer of Corps units not assigned or attached to Division enough copies for distribution to their troops. This code will not be used by units assigned or attached to a division. Each division will prepare a code for use within division. A separate code for use within and between artillery units of Corps will be published by the II Corps Signal office.

2. For communication between units of Fifth Army and units of Eighth Army, the Map Reference Code of the Eighth Army will be used. Distribution of the Eighth Army Code will be made by Fifth Army to Fifth Army units.

3. Basic Principle: The location to be encoded is expressed as being a certain distance and direction from a fixed reference point.

4. The fixed reference point is selected from a list of predetermined reference points issued to all holders of the code. The individual point that is selected is usually determined by its convenience of location in regard to the map coordinate that is to be enciphered. This list of reference points is broken into "areas". Each area has a distinguishing letter alloted to it and a maximum number of 26 reference points. Each of the reference points in a given "area" is designated by a different letter of the alphabet.

5. The distance is measured in terms of the number of tenths of kilometers horizontally and vertically from the chosen reference point to the location. A tenth of a kilometer is the distance that is expressed in the third and sixth figure of a six figure map reference. Therefore, one-tenth of a kilometer would be expressed as 001; one kilometer as 010; and ten kilometers as 100. Thus 4.8 kilometers east and 21.6 kilometers north of the reference point 4050 (or 400500) would be the map coordinate 448716.

6. The direction is expressed by the four points of the compass (N,E,S,W) which are encoded by means of a letter substitution code that is changed daily.

7. The encoded map reference must contain the following information which for convenience in encoding and decoding, is sent in the following form:

AB C123 D456 where

A - The letter designating the area.
B - The letter designating the reference point itself.
C - The horizontal (E or W) direction of the location from the reference point, encoded by the Direction Encoding Table.
123 - The horizontal distance from the reference point to the location.
D - The vertical (N or S) direction of the location from the reference point, encoded by the Direction Encoding Table.
456 - The vertical distance from the reference point to the location.

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INSTRUCTIONS FOR THE USE OF THE MAP REFERENCE POINTS CODE (Continued)

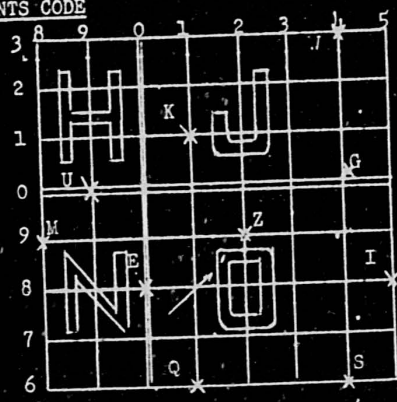
8. The following is a Sample copy of a map coordinate code. It will be noted that the code letters for areas and reference points are used for the duration of the code, but that a new direction encoding table is used every day.

SAMPLE REFERENCE POINTS CODE

Area Letter "P"	
Point	Code Letter
H 9000	U
J 1010	K
J 4000	G
J 4030	W
N 8090	M
0 0080	E
0 2090	Z
0 4060	S
0 5080	I
0 1060	Q
Etc.	

Direction Encoding Table

	E.W.N.S.
Day 1	Z U P F
2	V K X N
3	M L B S
4	K J T O
5	H S E N
6	L F G O
7	R H U D



Examples Using Sample Code

a. Map coordinate to be encoded on D1 0 1585

Letter designating the area:	P
Reference Point selected:	U
Horizontal direction encoded:	Z
Horizontal distance:	25Ø
Vertical direction encoded:	F
Vertical distance:	15Ø
Encoded Coordinate:	PU Z25Ø F15Ø

b. The same coordinate can be encoded by means of the other reference points with the following results:

PK Z2Ø5Ø F25Ø	PG U25Ø F15Ø	PW U25Ø F45Ø
PM Z35Ø FØ5Ø	PE Z15Ø FØ5Ø	PJ Z2Ø5Ø P25Ø
PZ UØ5Ø FØ5Ø	PS U25Ø P25Ø	PI U35Ø PØ5Ø

9. The points used in the Map Reference Points Code prepared by a tactical unit should be selected from the area in which the unit is, and expects to be, tactically employed. Since a divisional front is usually too small to contain more than fifteen reference points of the type used in this code where the second and fourth figures are zero, it will be necessary for these units to use reference points such as 2247, which is equivalent to 22Ø47Ø. This will provide from 7ØØ to 8ØØ usuable points for each divisional area. Divisional issues will consist of no less than fifty reference points. Corps issues will consist of no less than one hundred reference points.

10. Provision will be made for a weekly change of a portion of the reference points, and a complete weekly change of the letters designating the areas and reference points. The Direction Encoding Table will change daily.

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12-106

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ITEM NO. 2e-1
Sheet No. 1 of 1
4 January 1944

HEADQUARTERS II CORPS

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0001A, 9 January 1944

INSTRUCTIONS FOR USE OF COMMUNICATION AUTHENTICATION CIPHER

1. Purpose

This authentication cipher will be used when any doubt exists as to the identity of the calling or called party when communicating by electrical means. To insure the maximum security, the use of the cipher should be kept to the minimum consistent with operational needs.

2. Description

The authentication cipher consists of an alphabet under which are three rows of random numbers ranging from 0 through 9, following by a mixed alphabet in which letters somtime recur.

Example:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	5	7	6	3	2	0	9	8	4	1	4	1	6	1	8	5	3	7	8	1	9	7	0	1	6
0	4	0	2	2	1	8	7	6	5	8	8	3	4	9	2	4	8	6	0	5	3	0	9	2	6
1	4	3	6	6	2	1	8	9	6	5	2	7	2	0	1	6	2	5	6	3	1	0	6	7	3
E	U	G	F	V	S	L	K	Z	M	A	R	M	C	W	J	B	X	P	C	Q	H	I	C	Y	L

3. Use

a One authentication cipher is given for each day and, when requesting a party to authenticate, a group of three letters will be given. The reply is obtained by adding together the number in the first row under the first letter, the number in the second row under the second letter, and the number in the third row under the third letter, followed by the letter under the last number.

b Examples:

(1) An example of telephone or R/T procedure using the authentication cipher example above is:

Calling Party: "Please authenticate BVD"
Called Party (authtenticating): "Fourteen F" (the sum of 5, 3, & 6)

(2) An example of W/T, TG, or TTY procedure:

Station desiring authentication sends: ABC QAA BVD K
Called Station (ABC) replies: "ABC 14 F AR"

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HEADQUARTERS II CORPS

ITEM NO. 5b-1
Sheet No. 1 of 1
12 October 1943

SIGNAL OPERATION INSTRUCTIONS

EFFECTIVE: 0001A, 17 October 1943

APPOINTMENTS CODE

1. In order to avoid disclosing the nature of a headquarters by referring to specific staff sections, the following standard code names are for use throughout the ground forces (Signal Instruction #49, AFHQ) for radio conversations and messages and will apply to all types of headquarters.

BRITISH	U.S.	CODE NAMES
Commander	Commanding Officer or CG	SUNRAY
	C of S or Exec Officer	SUNRAY MINOR
"G" Staff	G3 or S3	SEAGULL
"A/Q" Staff	G1 or S1	MOLAR
"I" Staff	G2 or S2	ACORN
Signals Adviser	Signal or Communication Officer	PRONTO
RA	Arty.	SHELDRAKE
RE	Eng	HOLDFAST
S & T	G4 or S4	PLAYTIME
R E M E	Ord	BLUEBELL
Med	Surgeon	STARLIGHT
O.S.	Quartermaster	RICKSHAW

2. The second in command, or any other representative of an officer designated by a code name will be referred to as "Sunray Minor", "Seagull Minor" etc. No further distinction between representatives is permissible.

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UNIT STANDING OPERATING PROCEDURE II CORPS

V SIGNAL COMMUNICATIONS

1. General.

a. Standing Operating Procedure.

(1) The procedure set forth herewith will govern signal communications within II Corps.

(2) Commanders of divisions and separate units to include battalions will prepare an appropriate Signal Standing Operating Procedure for their commands. Four (4) copies of each Standing Operating Procedure and subsequent changes thereto will be furnished this headquarters.

b. Signal Operating Instructions.

Commanders of divisions, separate brigades, and other Corps units having a need therefor will prepare Signal Operation Instructions based on the Corps Signal Operation Instructions. Signal Operation Instructions and subsequent changes will be supplied as follows:

5 - Signal Officer, II Corps
4 - Signal Officer, Fifth Army
1 - Chief Signal Officer, Allied Armies in Italy
1 - Chief Signal Officer, Allied Force Headquarters
1 - Allied Force Headquarters Monitoring Service

All copies of Signal Operation Instructions will be sent directly to the Addressee.

c. Command Post Installations.

(1) Whenever time permits, signal installations will be installed at the new Command Post before the Command Post closes at its old location. In case an emergency move necessitates the temporary severance of all or part of the communication facilities, both higher and lower headquarters will be notified prior to such severance.

(2) Command Posts will be conspicuously marked from the unit axis of signal communication.

d. Protection of Signal Installations.

Each subordinate unit will provide for the protection of its signal installations utilizing organic weapons of signal and communication units, augmented if necessary by personnel and weapons of other units.

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ITEM No. 3c-1
Sheet No. 2 of 6

ARMY CODE SIGNS (Continued)

	1	2	3	4	5	6
804th TD Bn Hq	NXS	JTX	HYI	LKP	VHV	VXM
805th TD Bn Hq	LXQ	INI	PGT	ZFU	ICX	FRZ

LINK SIGNS

CG, II Corps	NMN	CZM	SKR	DVN	JQD	COO
II Corps Rear Link #1	WFL	GUS	PKK	KBX	ZMX	EJS
II Corps Rear Link #2	BVH	XKB	HCM	DAA	RGX	LRH
II Corps Adv to Army Link #1	AAC	XYI	BWW	LZS	LXA	GEV
II Corps Adv to Army Link #2	DBA	HNN	KRW	PDO	USQ	SSX
IV Corps Rear Link #1	GZU	KPB	UNL	YNE	HQC	YNE
IV Corps Rear Link #2	FXG	BQN	JNT	AQT	DNL	AQT
*Fifth Army CG Mobile Stations	MVN	NSU	BNC	HZF	LVH	VHB
PRU to II Corps Arty (A-9)	UGB	NUI	MBZ	UHJ	CJH	ZLO
PRU to IV Corps Arty (A-9)	FBU	FUA	AWY	VOC	JPR	OKD
II Corps Adv to Hq II Corps (C-1)	DLY	PNZ	KEZ	HJB	FOR	HDG
II Corps Adv to Hq II Corps (C-2)	IYV	YWB	DWF	TIM	MVG	JQY
II Corps Adv to Hq II Corps (C-3)	ZFT	JRR	ZJF	GXX	EBK	JOR
II Corps Adv to Hq II Corps (C-4)	SRT	PSH	AVF	UOA	FZT	URN
II Corps Rear Echelon	NJK	JPU	IPX	FJH	USH	KVO
II Corps Artillery Link	MJG	XHI	YNZ	UJP	JFA	IKH
II Corps Lateral Link to 13 Corps (Br)	EME	CEA	XNH	OBG	OUE	NAY
10 AGRA (Br) Rear Link	UEW	BJM	BID	LXW	IQU	EJC
10 AGRA (Br) Comd's Recce	HQV	ELL	GZA	FKZ	LKE	GAB
"B" Echelon	UYJ	FPH	FRM	NFE	EOC	ZCA
2 Med Regt Rear Link	JAP	UAW	MHO	BIM	CJV	EXF
Comd's Recce	FLC	YEZ	XGO	BTI	BCG	SVG
"B" Echelon	WBQ	PTP	SJE	KXQ	XLC	YBS
4/7 Med Bty	VJS	KUA	RPQ	ODC	PAA	PPI
8/12 Med Bty	SKY	NSD	NGP	HFQ	SDL	EFP
17 Med Regt Rear Link	KPT	ASN	SJZ	FWC	YGB	LFV
Comd's Recce	HTT	INQ	WGB	NES	OPH	VWY
"B" Echelon	TUF	HCJ	FOI	RED	OPO	KKO
252 Med Bty	UQU	BWG	XYR	EQP	SJB	FIN
253 Med Bty	LQE	GKI	YFV	JSR	PTG	HYK
18 Med Regt Rear Link	GFY	RNN	RUP	ZRN	CTR	YHA
Comd's Recce	WWX	IOE	VPL	LPW	VZL	JNP
"B" Echelon	UOG	JGZ	BGA	DMJ	UAI	AKE
254 Med Bty	ZHD	RTX	WMD	PRD	SBK	UAF
255 Med Bty	DNH	BHM	NHQ	AUQ	GXS	ERA
168th Inf Bde Wk/Sps REME	OYW	MON	AAG	XSK	NMF	UCO
498th Arty Coy RASC	KXO	BZJ	GWK	PPJ	JOC	ICX
IV Corps Reserve #5 (Used by 10 AGRA)	KSF	ORW	DVV	OES	RLJ	OES
1st Armd Div Rear Link "A"	DNT	PLM	OXV	TEF	ORE	VGQ
1st Armd Div Rear Link "B"	VQC	HEV	YUX	LCU	PXS	IHW

*CG Mobile Stations will be given first priority upon entering net and outstations will give all assistance necessary to relay traffic.

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ITEM No. 3c-1
Sheet No. 3 of 6

ARMY CODE SIGNS (Continued)

	1	2	3	4	5	6
1st Armd Div Arty Rear Link "A"	MMT	KLE	ACB	LPL	IWD	MNK
1st Armd Div Arty Rear Link "B"	IYC	OSC	OGD	JRS	RYL	PVL
27th Armd FA Bn Rear Link	EFO	CXP	ANA	PTY	DBW	TXC
68th Armd FA Bn Rear Link	INP	UNA	TOQ	NMZ	WNB	ISP
91st Armd FA Bn Rear Link	ARC	WSX	XHG	LLR	NWO	SAB
CC "A" Rear Link Comd Net	YXT	WBJ	RVZ	RWO	KML	ARY
CC "B" Rear Link Comd Net	OSV	VXK	IXL	WBS	SMX	TPE
1st Tank Bn Rear Link Comd Net	OQG	OZJ	WGO	NAJ	DTA	OUX
4th Tank Bn Rear Link Comd Net	FNC	AQU	MOI	TDH	YMH	RPK
13th Tank Bn Rear Link Comd Net	GLH	YBV	DNK	ZNB	XRP	IBB
6th Armd Inf Bn Rear Link Comd Net	FMA	DEN	UNK	VAU	REO	AZQ
11th Armd Inf Bn Rear Link Comd Net	SVL	AEY	VIQ	EJP	YMG	BFT
14th Armd Inf Bn Rear Link Comd Net	KTF	VRT	ZXC	RVR	END	WJI
34th Inf Div Rear Link #1	SBR	KWY	WID	YGS	SGH	PCS
34th Inf Div Rear Link #2	ZXD	CSB	CZH	INR	XQT	MAS
34th Inf Div Arty to Corps Arty	XBH	FDT	MGV	ZPC	XUQ	MPH
125th FA Bn Link to Div Arty	DIE	NEG	CJS	LNJ	MKC	EMJ
151st FA Bn Link to Div Arty	DQF	GAG	PZR	VGT	DQJ	DFN
175th FA Bn Link to Div Arty	UEO	DVD	ERC	IAC	MFR	XKQ
185th FA Bn Link to Div Arty	PWK	YVI	KJU	IOT	NIX	AFV
85th Inf Div Rear Link #1	KVK	TJI	SAN	RUI	GZU	VJX
85th Inf Div Rear Link #2	SIR	AMP	LQX	NDG	JXI	ZOI
85th Inf Div Arty Rear Link	UYO	WJG	BGV	WEI	DYG	IHH
328th FA Bn Rear Link	ZDL	YWN	EOY	WKE	IYB	UFG
329th FA Bn Rear Link	OTQ	RJC	VYA	HPS	TCX	OIP
403rd FA Bn Rear Link	PQX	LAE	RYE	WNI	WOD	UIH
910th FA Bn Rear Link	EHL	YWH	RTL	WRV	NEH	NBX
88th Inf Div Rear Link #1	SFV	MQL	JTQ	ZWA	IOP	MYQ
88th Inf Div Rear Link #2	OOZ	MKJ	SZZ	AGI	VVT	WZZ
88th Inf Div Arty Link to Corps	UJT	PNN	KAS	GAV	ARC	NVO
337th FA Bn Rear Link	TJP	CYE	GKL	NEV	RUV	UKS
338th FA Bn Rear Link	UWK	RPE	WNW	CXK	DHM	MDP
339th FA Bn Rear Link	VCZ	AYO	WBE	YPR	YEI	DBD
913th FA Bn Rear Link	FEQ	VUV	KAM	WSD	HZG	ZGS
91st Inf Div Rear Link #1	KKZ	EMB	HEU	FEY	YQQ	FEB
91st Inf Div Rear Link #2	SVN	IXS	FRO	FIB	FKB	FUZ
91st Inf Div Arty Rear Link	BIR	EBR	UTG	IXW	GVN	LUN
346th FA Bn Rear Link	FJA	TJX	WHE	RSG	LWR	UAM
347th FA Bn Rear Link	EFL	IHP	FBD	OSB	VJL	INX
348th FA Bn Rear Link	TAT	EUH	ROQ	POG	OUJ	VGZ
916th FA Bn Rear Link	IAM	FDR	MIO	JBA	ZSY	EHM
81st Cav Recn Sq Rear Link Comd Net	VZI	NPT	AOS	WXO	SNS	EBB
81st Cav Recn Sq Rear Link Recn Net	WRC	DEV	DOB	USM	VUZ	KED
81st Cav Recn Sq Rear Link Adm Net	IEG	NYA	FMB	AMO	LXJ	EAG
A Troop Rear Link	IQO	JSZ	OMA	EXA	KEA	FMH
B Troop Rear Link	LFT	PCV	WUY	EHJ	TIU	DMW
C Troop Rear Link	TPK	WAG	OOJ	RET	FUN	AZT
D Troop Rear Link	ZBM	JTC	UJM	VBE	PLX	FLH
E Troop Rear Link	JXQ	XQZ	FVE	KOM	IVP	VIF
F Troop Rear Link	MKE	IVB	YQE	JXL	GPV	ZVD

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ITEM No. 3c-1
Sheet No. 4 of 6

ARMY CODE SIGNS (Continued)

	1	2	3	4	5	6
365th Inf Regt Link to Div	CPK	YBB	WNS	NVN	WDR	WCB
1st Bn	IGQ	XKP	HVD	DGC	YLF	URS
2nd Bn	SSB	HSN	DMS	AVM	YSX	CNF
3rd Bn	XST	LNR	ZJB	WEP	BOB	OVB
AT Co	GTR	UBY	AWI	AMA	LOY	IAA
Cn Co	YNR	TZO	YPS	HMU	YBC	OVC
Serv Co	OCH	RSU	HDH	YVW	WHN	SGC
I & R Plat	VXD	AZJ	KWU	PNQ	BLM	FOX
71st AAA Brig Hq & Hq Btry Rear Link	IMO	UPJ	URS	PCV	NQY	HVH
II Corps Arty Hq & Hq Btry Rear Link	MSN	TZK	DTM	LZC	PWH	CUN
15th MP Obsn Bn Rear Link	ZGP	ENB	KGD	WPC	ZSO	PTM
A Btry	OGO	SBG	AXW	NCU	GJZ	VLP
B Btry	HNP	FDO	EWU	DNP	EQG	NRS
173rd FA Bn Rear Link	FZS	TPM	XLS	LAX	KED	IGE
A Btry	WIZ	TML	ACL	TQC	PMA	EPT
B Btry	UHI	SZA	VQY	PVZ	RPN	AJD
C Btry	NTY	NBZ	WSH	JAY	AAF	FQH
Serv Btry	JKV	LIM	ZKE	FQY	MSG	EKL
77th FA Gp Rear Link	WDQ	AKR	YCA	UFL	MSR	VHA
631st FA Bn Rear Link	PFU	BXT	CGC	HIF	JBM	KER
A Btry	KHT	TSH	VTX	IFC	SVA	TNH
B Btry	XEP	UQV	PFW	IPA	BOD	IPW
C Btry	VSB	HWX	JMA	IQV	XMF	RMO
Serv Btry	VBD	HVE	ILP	NUY	ILA	MHD
996th FA Bn Rear Link	CTL	OXP	JZZ	RYC	LPV	EBN
A Btry	MZF	IGE	FYB	LOM	GRD	UPM
B Btry	GVN	DZE	ZZD	YPG	WLA	VVH
C Btry	XQU	GRS	EMB	JDG	VOY	OMB
Serv Btry	WKU	WYB	OXG	WIA	GWD	SHG
985th FA Bn Rear Link	BON	CEA	DOT	IKC	BHE	SUN
A Btry	UFK	VAL	EQE	VWF	GAB	ADM
B Btry	ZKL	HWE	LZR	JAM	AIV	RNZ
C Btry	SDP	UCM	OUV	ZMQ	GWH	YRO
Serv Btry	KPB	AVX	YDO	OBH	LEH	CVL
178th FA Gp Rear Link	PJM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
179th FA Bn Rear Link	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A Btry	MVC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B Btry	XOH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C Btry	RBV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Serv Btry	OAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
204th FA Bn Rear Link	BTO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A Btry	OLF	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B Btry	HTC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C Btry	HNG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Serv Btry	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
434th FA Bn Rear Link	MBR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A Btry	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B Btry	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C Btry	HOB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Serv Btry	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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ARMY CODE SIGNS (Continued)

	1	2	3	4	5	6
423rd FA Gp Rear Link	GFT	NXQ	EYC	PTN	AKE	NCP
11 Bty, 54 Hy Regt	LFG	RAC	HXR	MTT	TWX	NYS
84th Cml Mortar Bn Rear Link	ZJD	JIF	TET	ZTH	OQX	ZTH
A Co	LIS	ARF	XAQ	EEI	FNT	EEI
B Co	WSQ	VID	YMU	FIE	LOM	FIE
C Co	WNL	GTV	NZP	XNV	BRY	XNV
D Co	CSY	VOC	UDX	NZW	MND	NZW
100th Cml Mtn Bn Rear Link	NDN	XBT	UVY	EJD	GUU	EJD
A Co	LJN	MRY	DHJ	PIG	MTE	PIG
B Co	FWA	LDE	RHD	YWK	GVP	YWK
C Co	IMJ	PFU	ZQL	SUA	UTN	SUA
D Co	WZA	KEK	GFX	RWZ	KFP	RWZ
19th Engr Regt (C) Rear Link	OBO	ZXY	BNJ	CRR	LEC	CRR
1st Bn Hq	JVU	HBM	KNL	JXD	SEJ	JXD
2nd Bn Hq	ZYO	YZG	BXK	TSF	ZXL	TSF
39th Engr Regt (C) Rear Link	UVZ	LFZ	PJU	UNF	IGO	UNF
1st Bn	JBG	RWW	JLH	ORG	ZDD	ORG
2nd Bn	IGS	HZY	YIT	DEW	EKK	DEW
16th Armd Engr Bn Rear Link	SPE	CRC	KAK	JDX	ALS	NPR
Hq Co	JQN	LXR	IDY	KED	CGW	ACH
A Co	IQZ	LHU	GCM	IBN	FGC	HAG
B Co	TSG	CUR	AAB	RXZ	IAG	PPA
C Co	GPH	VOD	SAH	TNW	KAB	IOK
235th Engr Bn (C) Rear Link	JUK	RAF	UVR	CQR	VXT	CQR
91st Cav Recn Sq Rear Link	RQM	JQJ	EMW	WVU	XHZ	CVU
Hq Troop	WJK	SHY	NEW	KCW	TXX	KCW
A Troop	AWW	PXO	DXY	MSE	LKA	MSE
B Troop	KUC	TSV	XOW	GIS	FAK	GIS
C Troop	IMM	PQC	WBW	GZC	FRI	GZC
E Troop	HGU	ARR	ALF	GHN	EDD	GHN
Assault Gun Troop	EQQ	OJK	TIL	PFF	GJP	PFF
752nd Tank Bn Rear Link	UTU	YBP	FDK	WZT	DZZ	MUZ
Hq Co	SVH	OHK	OBU	JNW	HMQ	XNI
A Co	FSR	RSB	CNG	ZBV	VDV	PWM
B Co	YAA	ABP	IWX	XDF	GIM	ONH
C Co	DGT	GLZ	LWD	FRQ	WQR	WUN
D Co	SCT	KFD	CFW	SLA	BLU	PIV
Serv Co	YHA	NTL	KGY	AXT	WAO	TEV
755th Tank Bn Rear Link	HYK	IDZ	MGT	FOS	YLK	WNG
Hq Co	IZI	PTV	MRA	FOD	DUC	FXB
A Co	YGQ	WOC	EGT	SLT	ZAI	DCK
B Co	EJC	VKD	UJV	YJK	NXF	NEE
C Co	XEB	VMV	FYY	GUX	CMA	RWS
D Co	WLA	YHV	XCG	MJR	CLY	MKK
Serv Co	ASG	RLP	GMP	RMK	MKN	BOR

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ITEM No. 3c-1
Sheet No. 6 of 6

ARMY CODE SIGNS (Continued)

	1	2	3	4	5	6
757th Tank Bn Rear Link	STC	ZDK	BXW	GBF	BQZ	JRT
Hq Co	VWY	DGM	KZC	TTG	UWX	XOX
A Co	MMU	RPW	SBV	DOH	XLA	JTB
B Co	DNM	TWA	WKL	XBB	NAU	YOZ
C Co	SVX	KQN	HNY	XHE	AKY	BYE
D Co	TPD	XTI	CKR	UBN	SFK	DJL
Serv Co	RMA	EHR	UWD	PSK	EZJ	VLP
701st TD Bn Rear Link	KMA	NAS	WER	BHC	ASG	IGG
A Co	IMB	NBX	PIN	JKL	YBS	CBV
B Co	JKJ	TBG	VZD	DDQ	UCO	SAF
C Co	NBC	TST	SIW	NSK	VWY	ZDY
Rcn Co	UQQ	KZS	OFW	JQT	MMU	BBZ
804th TD Bn Rear Link	LWR	TDF	MYY	JOI	ZCD	KCF
A Co	ITW	HUJ	SNN	QWF	RSX	VYE
B Co	OTV	UFG	WQZ	VLZ	HAE	PSR
C Co	ZFS	ZWD	UVP	XCT	TTV	EFH
Rcn Co	WEE	JNX	ALD	RUM	RRM	KFS
805th TD Bn Rear Link	CRN	SZN	JXE	JOB	YHA	GJL
A Co	FSW	AVR	FQJ	GLK	NSE	PBB
B Co	SMH	PEJ	IMA	MKI	FJK	SAA
C Co	ZSY	TKI	KYJ	MHC	LAE	SKT
Rcn Co	OML	MLT	OGW	AXR	DNM	XGL
Det "A" 128th Sig RI Co Link #1	KCN	KMU	WFA	ATD	MZT	LTH
Det "A" 128th Sig RI Co Link #2	SOX	OSD	UTF	FMG	EVX	TAG
202nd MP Co	BYY	OKT	RQG	JLU	XWD	ARE
Spare #1	EMD	YWI	YRJ	DST	ZGV	WYP
Spare #2	YFO	HNR	JCG	ELV	ING	EXP
Spare #3	SRT	ZUA	UVN	CEI	PJW	YNB
Spare #4	FBB	KIB	EPI	MFI	VDW	LWE
Spare #5	OIO	ANB	BPX	YMX	UNQ	MDU
Special Mission #1	MHD	REE	BOJ	MFU	AKU	TBN
Special Mission #2	XGE	NIW	NWP	BNS	CKY	HAF
Special Mission #3	AHZ	VSC	TFM	IZF	SWF	MAV
Special Mission #4	AFP	YFY	UNT	NZU	EMV	BKB
Special Mission #5	KTB	KTN	MFC	DIM	TBV	RWA

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1 June 1944

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APPENDIX "A" TO IV CORPS G-2 REPORT NO. 21

TRANSLATION OF CAPTURED DOCUMENT.

19 Air Corps Field Division Div.C.P., 1 June 'hh
G-1 No.1162/hh SECRET

Division Order No. 40 -
For the Application of Anglo-American Combat-Experience During Training.

1.) Much information regarding combat experience has been gained in the Italian Theatre of Operations. After close study by all commanders, this must be applied to all training.

In all combat experience reports, the superiority of the enemy's Air Force and Artillery is stressed, and it is the realization of this fact that must guide training of troops.

2.) Enemy Aerial Reconnaissance detects our every movement, every concentration, every weapon, and immediately after detection, smashes every one of these objectives. This is accomplished by close coordination of Air Corps and Artillery. Because of this, all training must be based on experience, and instructors must continually demonstrate its importance. Every soldier must be made to realize that the enemy's present superiority in the air, is not of temporary duration, - subject to time and locality, - but rather, that it is part of a permanent set of conditions that must be faced by the troops.

3.) More than ever before, units must be trained to fully master the art of camouflage. It is not enough that soldiers know how to attach grass and twigs to their helmets. Complete camouflage of man and material is required. First of all, full advantage must be taken of natural and artificial cover. Every movement must be made in small groups on sides of roads, along trails, rows of bushes, high wheatfields, haystacks, ditches, tree lines etc.- Every soldier that does not move is invisible. The resultant loss of time must be taken into account. This can be reduced, if commanders select only objectives that can be reached under cover. The troops must realize that the unsoldierly conduct of one man, is likely to endanger the mission of their whole unit. All commanders are to study closely the terrain lying to the NW, (38 GAF Jaeger Regt. in a general NNE direction) - emphasizing taking full advantage of cover and concealment for future fortifications and movement.

4.) Horses and Vehicles can also be camouflaged by use of leafy branches. When it is found impossible to move cross-country, try to march in the shade of trees. In case of aerial attack stay close to hedges and groups of trees. Single farms provide good stopping places for combat troops and supply trains. But even within these farms, no equipment or soldier may be exposed to view. Vehicles are to be parked in barns and shacks, or under closely spaced fruit trees. A well camouflaged O.P. will be established immediately on high ground. The dissemination of observations of instructors must be the practice.

5.) Experience reports demonstrate that the enemy knows how to reconnoiter and destroy our every concentration. Generally assembly areas can be reached only at night. (For movement at night, see paragraphs 3. and 4.) The enemy knows where to expect counter attacks, and therefore knows where assembly

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areas will be located. He will illuminate the sky with innumerable parachute-flares, but he usually does so only along roads and paths. Units must therefore move into assembly areas by inviltration, without use of lights of any kind. Heavy weapons must be completely camouflaged, making full use of terrain and artificial concealment. Single buildings with their surrounding wood-piles, sheds, straw barns, rabbit-hutches and manure piles, provide the best opportunity for this. Every weapon detected by the enemy is destroyed by coordinated fire, directed by his AirOP's. The enemy can conduct his Arty-Air Observation completely unhindered.

6.) Experience has proved that bridges, narrows, railroad stations, rail and road intersections are continually under fire. During training these areas must be given consideration and if possible should be avoided. Consequently supply operations will be considerably more difficult. The supplying of ammunition and rations by carriers must be practiced. Camouflaged pneumatic assault boats are to be held in readyness, whereever river crossings are going to be attempted.

7.) Since all telephone lines will be destroyed in short order, (during the present planning period they have accomplished their purpose) - all telephone operators must be trained in signal communication services.

8.) The ranges of Anti-Tank close combat weapons (Sticky Grenade and Bazooka) are known to the enemy. Enemy tanks withdraw 100-200 meters upon detection of the forward line. For such situations, the Anti-Tank close combat teams, can get into a favorable position more rapidly and with greater ease, than do Anti-Tank Guns, the movement of which is impossible on the battlefield during the day.

9.) Even when preparing the most essential Tank Positions, camouflage must be considered. A well camouflaged soldier can make himself completely invisible in potato and beet-patches. Tank Positions that have not been camouflaged, will be easily detected from the air, and are often the cause of closer inspection of aerial photographs by enemy interpreters.

10.) Every vehicle (H.D. or M.T.) must post an Air Lookout. Marches will be interrupted often for taking cover, or for freezing instantly and remaining motionless, especially at night. The best means of locomotion for individuals, as well as whole units, is the bicycle. To find appropriate cover with lightning speed practice is necessary. When moving in formation determine in advance, which section will take cover on the right, left, or forward.

11.) Sand is the best decontaminator for areas that have been made impassable by contamination with gases or phospherus. Sand is available everywhere in our sector. Even without the use of specially trained Decontamination Squads, troops must know how to make gas contaminated roads passable, and how to combat grass fires. Vehicles of all description must be used to the greatest possible advantage.

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12.) I expect that the Division will keep up to date and make full use of combat experience gained in the fight against the Anglo-Americans, applying this in all phases of its training and maneuvers.

Sooner or later the Division will have to fight a well-trained opponent, who is equipped with highly superior materiel. No opportunity must be lost to give troops that feeling of inner confidence that comes with the knowledge of being capable of superior achievement. Without this no one can be expected to stand up under the psychological strain imposed by modern battles of materiel.

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1-147

Item No. 1a-147

SIGNAL OPERATION INSTRUCTIONS
"I N D E X"

Hq 1st Armd Div.
Sheet 1 of 1

Effective 01/0A January, 1945.

208

TITLE OF ITEM	SERIAL	REMARKS
1. General		
a. Index	1a-147	Supersedes Item No. 1a-146
b. Letter of Instruction	1b-2	
c. Distribution "S"	1c-6	
2. Codes and Ciphers		
a. Dist. of Crypt. Systems	2a-7	
b. Pyrotechnic and Smoke Code	2b-6	
c. Recognition Signal	2c-2	
d. M-209 Keys	2d-69	Effective 31/17/A Dec. 1944.
e. AFCODE Key Numbers	2e-71	Effective 31/10/A Dec. 1944.
f. Authenticator System	2f-18	Page A. 1, 2.
g. Map Reference Points Code	2g-67	Effective 31/10/A Dec. 1944.
3. Radio Communication		
a. Radio Nets	3a-7	
b. Radio Frequency Assignment	3b-55	Effective 01/10/A Jan. 1945
c. Radio Link Signs	3c-70	Effective 31/12/A Dec. 1944.
d. Headquarters Code Signs	3d-70	Effective 31/10/A Dec. 1944.
e. FM Radio Channels	3e-5	
f. Periods of Radio Activity & Silence	3f-23	Effective 01/0/A Jan. 1945.
4. Wire Communication		
a. Telephone Directory	4a-8	
5. Miscellaneous		
a. Index to Signal Instructions	5a-28	

By command of Major General PRICHARD:

JOHN L. INGREP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:

William R. Tuck
WILLIAM R. TUCK, Jr.
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U. S. Army.

11 March 1945

SIGNAL INSTRUCTION)
NUMBER 194)

RADIO COMMUNICATION

This item supersedes Signal Instruction Number [illegible], 31 January 1945.

1. During operations, Division AM Radio nets will normally be established as prescribed in Item 3a-( ) of the Division SOI. Variation will be as necessitated by the tactical situation. Nets not described therein will be organized by unit commanders concerned.

2. FM Radio nets will be established as prescribed by unit commanders on appropriate channels as indicated in Item Number 3a-( ) in the Division SOI.

3. Radio telegraph procedure as prescribed in MTOUSA publication, RADIO TELEGRAPH PROCEDURE FOR U. S. GROUND FORCES, dated 7 November, 1944, will be used on all C/W nets of this Division.

a. All messages will be cryptographed unless the words "Send in Clear" appear over the signature of the writer on the face of the message. (Reference paragraph 41b, AR 380-5). Under no circumstances will the name of the person or unit designation be sent in the clear. The message center and/or the radio operator will substitute HEADQUARTERS CODE SIGNS for any names of units which may inadvertently be included in a message marked to be sent in the clear. Standard Code Names (Signal Instruction Number 15-( ) this headquarters, will be used to represent Commanders or staff officers.

b. Radio authentication may be used when there is any reason to doubt authenticity of a transmission. Means of authentication will be by the use of Item Number 2f-( ) in the Division SOI. Care will be exercised to prevent excessive use of authentication, or the delay of traffic thereby.

4. Radio telephone procedure as prescribed in MTOUSA publication RADIO-TELEPHONE PROCEDURE FOR U. S. GROUND FORCES, dated 1 May 1944, will be used in all Radiotelephone nets of this Division. Such changes in Radiotelephone procedure as may be made, will be incorporated in future editions of this Signal Instruction.

a. Radiotelephone transmissions will be brief and concise, and maximum security consistent with the tactical situation will be maintained. Unit designations will never be used, instead, HEADQUARTERS CODE SIGNS, will be inserted in their place. When a message is transmitted in clear text, all locations will be encoded with MAP REFERENCE POINTS CODE. See Paragraph 3a above.

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5. Nets operating on Facsimile will open and authenticate stations in the same manner as in manual operation. When all stations are in the net and adjusted carefully to the net frequency, the NCS shifts the net from manual to Facsimile operation by transmitting, after a preliminary net call, the signal "FAX IX K". Upon receipt of a reply from all stations in the net, the "Execute" signal is transmitted whereupon all stations turn on the Facsimile equipment. Thereafter, all message traffic is handled by Facsimile.

a. Facsimile nets can not operate "break-in". In the event a message is received in unreadable form, the receiving station will send the operating signal "QQA" (Re-run tape) on receipt of which the sending station will re-run the message. Stations will not request a re-run of messages not addressed to them. If the message is still unreadable following a re-run, the receiving station will send "QVA" (Unable to record) and the message will be transmitted manually. When the NCS desires to restore the entire net to manual operation, the same procedure will be exercised as described above with the exception of substituting the signal "MAN" for "FAX".

b. Link Signs will be used on Radio Facsimile messages, and Headquarters Code Signs on messages sent by Wire Facsimile.

c. The use of Facsimile does not increase the security of transmission, and the same restrictions apply to the use of clear text transmitted by facsimile as to those relative to manual operation.

d. Station call letters and any other parts of the heading are written on the tape preceding the text. Operating signals and receipts for messages are sent manually or by radiotelephone.

e. Extreme care must be taken when printing the message on the tape to assure perfect transmissions.

(1) Printing must be clear and complete.
(2) Characters must be formed with care so that confusion between characters will not occur.
(3) Characters must be spaced at least 1/8 inch apart, and groups spaced at least ¼ inch apart to prevent confusion.
(4) If a mistake in printing is made, do not erase, instead draw two horizontal lines through the entire group containing the mistake and rectify by re-writing the group.
(5) Eight to twelve inches of blank tape must precede the beginning of a tape message to start the receiving stations machine.

6. Operators must be constantly alert to the fact that enemy intercept stations are on a continuous watch, and that enemy direction finders are continually seeking to obtain radio bearings in an effort to locate our dispositions and installations. It must be assumed that all radio transmissions are intercepted by the enemy, and that the enemy may obtain the general locations of any radio sets capable of receiving FM radio transmissions from 20.0 to 100.0 megacycles.

a. Each radio set in this Division will display a card marked "THE ENEMY IS ALWAYS LISTENING".

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b. Unit designations, telephone code names, and names of officers or positions will never be used over the radio. Signatures will never be transmitted, and will be deleted by the radio operator or message center when inadvertently included by the writer.

c. Service messages will be kept at a minimum, and a maximum use will be made of "Q" Signals for this purpose. Authorized "Q" Signals are those listed in FM 24-12 (Short Title, CCBP-2).

d. Readability reports will not be exchanged unless one station has a readability of 3 or less.

e. Action and information addressees are clearly indicated by procedure signs. Receiving message centers or Signal centers will give a complete interpretation of these procedure signs for the information of staff officers. This interpretation will be written on the face of the message and indicated in a minimum space to include the originator and the addressee.

f. Message transmissions will be restricted to the minimum tactical requirements except as otherwise directed by this headquarters for the purpose of deception and training.

g. Transmitters will be tuned with the shortest possible period of carrier transmission. Modulation tests will be made by blowing into the microphone rather than by speech.

h. All Net Control Stations will be equipped with a Frequency Meter SCR-211 which will be used to check the frequency of each radio station in the net at least twice daily. A tolerance of plus or minus 1 Kc deviation from the assigned frequency when tuning will be the maximum normal error tolerated. Where the NCS is equipped with radio set SCR-506 and a SCR-211 is unavailable, the frequency check will be made by means of the built in crystal frequency standard. An entry will be made in the radio log of the NCS to include the results of the frequency check, the time recorded, and the signature of the individual making such check.

7. Within this Division there are two categories of radio silence.

a. Normal Silence: To afford training in operation without radio, and to deceive the enemy as to the implications of our radio silence. During the normal silence periods, no radio transmissions of any kind including tuning and testing will be made, except in emergency as authorized by the unit commander concerned. Such an emergency must include the complete failure of telegraph and telephone communication. It will be noted that discretion to break normal radio silence is solely that of the unit commander concerned.

b. Special Operational Silence: Silent periods imposed as necessary for operational reasons. Such silences will under no circumstances be broken by units and formations concerned without specific authority of the headquarters having ordered them. Operational instructions ordering such silences will specify "Special Operational Silence".

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(1) The term "Radio Silence" as used within this Division indicates the following procedure with reference to radio nets

(i) All transmissions are prohibited including those necessary to establish nets.

(ii) Radio sets will be installed and tuned to proper frequency in readiness for operation, and the operator will maintain a continuous watch on the assigned frequency.

8. Radio Activity During Reliefs of Units.

a. Each unit affected by the relief will maintain its CW-radio nets existing at the beginning of the relief, and maintain normal radio activity on these nets, until the relief is completed.

b. Upon assumption of command of the sector by the new unit the code signs and frequencies of all radio nets, including voice nets, of the unit relieved will be continued in effect until the end of the radio day at which time the new unit will revert to operation on its regularly assigned code signs and frequencies.

c. The relieving unit will not open any radio net until the corresponding radio net of the unit being relieved has been closed.

d. Radio silence will be maintained by units while on the move.

9. Variations in procedure identify operators and units to enemy intercept stations, and tend to break down the security of Link Sign Procedure in general. In Link Sign Procedure, the Procedure sign "I" is NEVER used.

10. Communication Officers will insure that all concerned personnel are thoroughly familiar with the provisions of this Signal Instruction.

11. Caution will be exercised to prevent whip antennas from coming in contact with overhead obstructions such as wire, bridges trees, and similar hazards of this nature. Whip antennas will be tied down while the vehicle is moving.

BY COMMAND OF MAJOR GENERAL PRICHARD:

JOHN L. INSKEEP
Colonel, GSC
Chief of Staff

C.A.Curtis

OFFICIAL:
C. A. CURTIS
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Item No. 5a-31

SIGNAL OPERATION INSTRUCTIONS
"INDEX-1 AD SIGNAL INSTRUCTIONS"

Hq 1st Armd Div.
Sheet 1 of 1
11 March 1945.

SIGNAL INSTRUCTION)
:
NUMBER.....1-18)

1. All Signal Instructions not fully explained in items of Signal Operation Instructions will be published as an item listed under this index. The index itself is issued as an item of the SOI to provide an accurate check on the effective dates of listed documents.

SI NO.	SUBJECT	DATE
1-18	Index, 1st AD Signal Instructions	11 March 1945
2-1	Standard Time	11 March 1945
3	Power Ratings of Radio Sets	31 January 1945
4-3	AFCODE Instructions	15 December 1943
5-3	Instructions for use of Converter M-209	16 July 1944
6-1	Authenticator System Instructions	16 July 1944
7-1	Symbols indicating Mine-free paths along overhead wire routes	31 January 1945
8-1	Pyrotechnic and Smoke Code	31 January 1945
9-2	Cryptographic Security	31 January 1945
10-3	Radio Communication	31 July 1944
11-3	Army Code Sign System	11 March 1945
12-1	Preparation of Dummy Traffic	16 February 1945
13-2	Message Classification	31 January 1945
15-1	Standard Code Names	1 October 1944
16-2	Instructions for Map Reference Points Code System	26 November 1944
18-2	Field Wire Communication	31 July 1944
19-2	Pigeon Communication	30 November 1944
20-2	Preventive Maintenance for Signal Corps Equipment	8 August 1944
		11 February 1945

BY COMMAND OF MAJOR GENERAL PRICHARD:

JOHN L INSKEEP
Colonel GSC
Chief of Staff

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Item No. 5a-31

SIGNAL OPERATION INSTRUCTIONS
"INDEX-1 AD SIGNAL INSTRUCTIONS"

Hq 1st Armd Div.
Sheet 1 of 1
11 March 1945.

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BY COMMAND OF MAJOR GENERAL PRICHARD:

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HEADQUARTERS 1ST ARMORED DIVISION
APO 251, U. S. Army

5 MAR 1945

18 February 1945.

SIGNAL INSTRUCTION)
NUMBER.....11-3)

ARMY CODE SIGN SYSTEM

NOTE: Signal Instruction No. 11-2, dated 19 January 1945 is rescinded and the following substituted therefor.

1. REFERENCE:

"Radiotelegraph Procedure for U.S. Ground Forces in the Mediterranean Theater of Operations" dated 7 November 1944.

FM 24-9, Combined U.S. - British Radiotelephone (R/T) Procedure, 28 December 1943.

FM 24-10, Combined Radio Telegraph (W/T) Procedure, 20 January 1943.

2. DEFINITIONS:

a. Introduction:

The Army Code Sign System is designed to deny information to enemy intercept and intelligence service. It's use prevents, or renders more difficult, analysis by the enemy of their intercept reports on our wireless transmissions.

b. Army Code Signs:

Army Code Signs are three letter code groups, changed daily, and used to designate a headquarters and/or to identify a specific radio link.

c. Headquarters Code Signs:

A Headquarters Code Sign is an Army Code Sign which is used to designate a tactical headquarters in the body of a message where a limited degree of security is required, such as a R/T conversation or other radio transmissions "In the clear".

d. Link Signs:

A Radio Link Sign is an Army Code Sign which is used to designate a specific Radio Link between two radio stations.

3. HEADQUARTERS CODE SIGNS:

a. Headquarters Code Signs are assigned to headquarters of units down to and including batteries, companies and reconnaissance platoons, and are primarily intended to identify the

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headquarters in the body of a message or when followed by an appropriate Standard Code Name, to identify the Staff Section or an individual. (Reference Signal Instruction Number 15-1 Headquarters First Armored Division, dated 26 November 1944).

b. Each headquarters not assigned a specific Code Sign will use the Code Sign of the next superior headquarters followed by the appropriate affix as designated in Appendix Number one, this Signal Instruction.

4. RADIO LINK SIGNS:

a. A Radio Link Sign, as distinct from the Headquarters Code Sign, is assigned to each radio link between headquarters of units down to and including the rear link of battalions and reconnaissance companies, to identify that particular radio link.

b. A Radio Link, not assigned a specific Link Sign, will use as the Link Sign the assigned Headquarters Code Sign of the subordinate headquarters of that link. Units assigned neither a Link Sign nor a Headquarters Code Sign will use the Code Sign of the next superior headquarters followed by the appropriate affix listed in Appendix Number One, this Signal Instruction.

c. (1) Individual FM radio stations at headquarters of division and combat commands are identified by the staff section telephone number when operating in unit "housekeeping" net. If necessary, the calling officer may further identify himself by use of the appropriate standard code name. (Signal Instruction Number 15-1, this headquarters). Such stations will not employ the code sign allotted to the headquarters, or to any of its rear links, for local intercommunications within the headquarters.

(2) Defense platoon tanks and armored cars of division or combat command headquarters will use single letters as link signs in the "housekeeping" radio nets.

d. Radio stations that habitually change from one radio net to another will derive their link signs in such a manner as to avoid disclosing any connection between the different nets. When operating on a battalion or higher net, this type of radio station will adopt the link sign of the "senior out station" with the addition of its own standard affix. When operating in a company, battery, or lower organization radio net in which the out stations derive their link signs from that of the net control station, the roving station will adopt the code sign of the NCS of that net with the addition of its suffix. (Where more than one station, allotted the same standard number affix, but not permanently allotted an additional distinguishing letter affix, are liable to operate in the same net, such stations will also be allotted distinguishing letter suffixes for use in that net. These letter affixes will not be employed in nets where no ambiguity is possible).

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5. ILLUSTRATIONS:

a. Use of Headquarters Code Signs:

(1) Code Signs for subordinate units to which three letter Code Signs have not been allotted are formed by adding the figures; 1,2,3 etc., to the Code Signs of their parent unit. These affixes are always allotted in order of seniority. For example: In an infantry company using the Code Sign "CHARLIE' 'BAKER' 'ABLE', the first platoon will be identified by 'CHARLIE' 'BAKER' 'ABLE' and so on.

(2) Code Signs for sub-sub units are formed in a similar way, by adding the letters 'A,B,C' etc., in order of seniority. Thus, the squads of a platoon using the Code Sign 'CHARLIE' 'BAKER' 'ABLE' '1' would be 'CHARLIE' 'BAKER' 'ABLE' '1' A'ABLE', 'CHARLIE' 'BAKER' 'ABLE' '1' 'BAKER' etc. After communication is established, the last two letters of the Code Sign 'CHARLIE' 'BAKER' 'ABLE' '1' 'ABLE' may be dropped and the first letter plus the affix is used as the Code Sign, ie, 'CHARLIE' '1' 'ABLE'.

(3) The allotment of affixes for subordinate units and subordinate units is a unit responsibility.

b. Use of Radio Link Signs:

(1) In nets regularly assigned RADIO LINK SINGS:

(a) Where separate LINK SIGNS are assigned, they will be used in the appropriate links. By reference to item 3c, Signal Operation Instructions, it will be found that on 4 November 1944, the LINK SIGNS 'MIKE' 'ABLE' 'UNCLE' and 'ABLE' 'MIKE' 'GEORGE' are assigned to the Division Command Net and the Division Reconnaissance Net radio links respectively between Combat Command "A" and higher headquarters and will be used to identify those respective links.

(2) In Nets not regularly assigned RADIO LINK SIGNS

(a) On 4 November 1944, the CODE SIGN for Co "A", 701st Tank Destroyer Battalion is 'XRAY' 'DOG' 'MIKE'. On that day the same group 'XRAY' 'DOG' 'MIKE' would be used as the LINK SIGN designating the radio link between Co "A" and the next higher headquarters.

(b) The Chief of Staff section FM radio station will use the number 'FIVE' as its link sign in the Division "Housekeeping" radio FM net. Similarly, the Signal Section FM radio station will use the number 'ONE' 'ZERO'. The Defense platoon Commander will use the letter 'ABLE' and other tanks and armored cars of his platoon will use similar letter assignments

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While operating in the Division Headquarters "Housekeeping" FM radio net. Similarly, the individual stations of Combat Commands will, while operating in its "Housekeeping" FM net, used identical assignments.

By command of Major General PRICHARD:

W.P.JOHNSON,
Colonel, Infantry,
Actg. Chief of Staff.

OFFICIAL; CA Curtis (ltr)
C.A.CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

Distribution "S"

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Gun Position	1
O P	2
Fwd Obsr.	3

b. Battalion:

FDC 1	1A
FDC 2	1B
FDC 3	1C
RO	2
Air OP 1	3A
Air OP 2	3B
Mun O	4
Ln O 1	5A
Ln O 2	5B
Ln O 3	5C

4. Tank Battalion Affixes:

a. Hq and Hq Co:

Mortar Platoon	1
Assault Gun Plat	2

b. Tank Co:

1st Platoon	1
2nd Platoon	2
3rd Platoon	3

5. Tank Destroyer Battalion Affixes:

a. Hq & Hq Co:

Staff Platoon	1
Mortar Platoon	5
T Platoon	3
Co Hq	4
Mtr Maint Plat	2

b. Reconnaissance Company:

1 Rcn Plat	1
2 Rcn Plat	2
3 Rcn Plat	3
Pioneer Plat	4
Co Hq	5

c. Gun Company:

1 Platoon	1
2 Platoon	2
3 Platoon	3
Co Hq	4

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ATTACHED

Appendix #1 to Sign Instruction Number 11-3.
STANDARD CODE-SIGN AFFIXES FOR SUB-UNITS

1. GENERAL:

a. Link or Code Signs for sub-units which are not allotted three letter Code Signs are formed by adding the numbers, 1,2,3, etc. to the Code Sign of the parent unit or sub-unit. These affixes are allotted in order of seniority, for example, in an infantry company, the first platoon will receive the affix 'ONE', the second platoon receives the affix 'TWO' etc. Link or Code Signs for sub-sub-units formed in a similar way by adding a further letter affix. For example, the first squad of the first platoon would receive the affix 'ONE ABLE', the second squad, 'ONE BAKER', etc.

b. The radio cars of unit commanders, when such cars are not assigned a three letter code or link sign and when operating in their unit command net, will be allotted the affix 'ONE FIVE'. (This applies only when such radio is not the NCS of the radio net in which it operates).

c. Affixes will be allotted to miscellaneous radio stations not otherwise assigned link signs and affixes beginning with the affix 'ONE SIX' or one higher than the highest affix already assigned in that net, whichever numbered affix is the greater.

d. Numbered affixes between the highest allotted to a sub-unit (par. 1a above) and 'ONE FIVE' are spares, and may be allotted as required, to cover further expansions or reorganization of such units.

2. Armored Infantry Battalion Affixes:

a. Armd Inf Bn:

Rcn Platoon	1
Assault Gun Plat	2
Mortar Plat	3
MG Plat	4

b. Inf Rifle Co:

1 Platoon	1
2 Platoon	2
3 Platoon	3
AT Platoon	4
HQ Platoon	5
Mortar Platoon	6
Special Mission	7
Pioneer Platoon	8

3. Armored Field Artillery Battalion Affixes:

a. Firing Btry:

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HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U.S. ARMY

26 FEB 1945

11 February, 1945.

SIGNAL INSTRUCTION)
NUMBER.....24-2)

NOTE: This Signal Instruction supercedes Signal Instruction Number 24-1, this Headquarters, dated 10 December, 1944.

PREVENTIVE MAINTENANCE FOR SIGNAL CORPS EQUIPMENT

1. GENERAL.

a. The care of signal equipment, particularly through proper preventive maintenance, will be stressed at all times in order to effect a more efficient utilization of equipment and to prolong the useful of existing equipment and supplies.

b. The need for performing first and second echelon maintenance of signal corps equipment is especially essential since much of the equipment has comparatively delicate and intricate mechanism likely to become damaged or inoperative unless properly maintained. Proper care of this criticial equipment and the constant practice of precautionary measures will prevent many interruptions of service and prolong its useful life.

c. An important phase of preventive maintenance is proper lubrication. Adequate lubrication of signal corps equipment requires frequent application of some type of oil or grease. Further information relative to lubrication is provided in WD Technical Bulletin TB SIG: 69, "Lubrication of Ground Signal Equipment," dated 3 August 1944.

d. Preventive maintenance is that ordinary everyday care of equipment which will insure its continuous operation and satisfactory performance. It is performed without removing the equipment from service, preferably during slack periods when equipment is not in operation. Although all echelons perform this maintenance, it is a primary duty of operating and organization maintenance personnel (first and second echelon). If repairs are impractical, under service conditions, the equipment should be replaced and sent back to overhaul before failures which cannot be foreseen, but it is the duty of all operating and organizational maintenance personnel to keep constantly in mind that a few minutes spent checking and making adjustments, or making minor repairs and replacements may prevent a complete failure, which will require removal of equipment from service and hours of repair work.

2. THE PRACTICE OF PREVENTIVE MAINTENANCE.

a. Preventive maintenance consists of innumerable small jobs, seemingly unimportant in themselves, ranging from the replacement of a worn-out battery in a field telephone to the complete checkover of a complex piece of radio or carrier telephone equipment and repair or replacement of parts which are deteriorating and will probably fail in a short time.

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B. Usually failures in associated communication equipment are caused in:

(1) Parts operating in high temperatures.
(2) Rotating machines.
(3) Internal combustion engines.
(4) Moving parts.

C. Some preventive maintenance practices which will reduce failures: These points are outlined in the following paragraphs:

(1) Parts operating at high temperatures, such as vacuum tubes; bleeder resistors, ballast resistors and lamps, crystals, oven heaters, etc., should be inspected at regular intervals for defects.

(2) Tubes should be tested regularly and replaced when they reach the end of their useful life, as indicated by values set up for the tube.

(3) Tubes which operate at high temperatures should be checked more regularly than those operating at lower temperatures. Tubes in receivers should also be inspected while in operation. Tapping lightly while listening will often reveal noisy tubes and those having loose elements.

(4) Resistors which carry sufficient current to heat them should be inspected regularly for discoloration and warpage. If these indications of overheating are present, the resistor should be checked for its proper value. Values of most coated or molded resistors change with age and overheating.

(5) Parts which operate at high temperatures may damage other parts located near them by softening of insulating compounds, ageing plastic parts and insulation on wire, thus prematurely causing breakdown of insulation. All such items should be inspected regularly for indication of impending trouble.

D. All rotating machinery requires frequent servicing to obtain long life and trouble-free operation. All types of generators and dynamotors should be checked regularly. The frequency of these inspections will depend upon the amount of use given the machine. A good practice is to check before and after each operation.

(1) Examination of signal equipment turned in for higher echelon repair in many cases indicates lack of proper lubrication by 1st and 2nd echelon by using units. Bearings should be checked for lubrication and noise. Most signal corps generators and dynamotors have ball bearings, and the majority of these will operate over long period without attention, if properly adjusted and lubricated when installed. However, if ball bearings are under pressure from end housings, or are not properly lubricated, they will overheat and soon become noisy. The noise is caused by loose or rough balls running over rough races. This causes the armature to vibrate and brings on a multitude of other troubles, such as fluctuating out-put, burned commutators, etc. Bearings can be over lubricated as well as under lubricated. Too much or too heavy grease will cause heating due to molecular friction which will cause the grease to melt and run out of the bearings. Ball bearings should operate at practically the same temperature as other parts of the machine, which should

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bearings will operate at a higher temperature. Bearings which have been [illegible] grease or oil often throw it out of bearings on to commutators, where it collects carbon dust from brushes, causing the armature to short and burn out. Excess which is thrown out grease or oil should be carefully [illegible] will lubricant escaping from bearings outside the housing, the [illegible] prevented.

(2) All commutators of electrical equipment must be kept dry and free from oil. Carbon brushes wear off rapidly in use, and if commutators are kept [illegible] of carbon dust which is thrown off and will do no harm. Brushes should fit [illegible] without rotation when moved [illegible] Springs must be properly adjusted. A brush whose spring is too loose will burn out commutator, reduce the current, and cause electrical noises. [illegible] A brush that has too much spring tension will cause overheating of commutator and rapid wear of brush and commutator. Spring tension should be kept as received from the factory where ever possible.

3. MEASURES TO BE ADOPTED.

a. As a means of insuring adequate preventative maintenance, all officers responsible for signal corps equipment which is in use and requires periodic [illegible] will maintain a check sheet for each radio set, mine-detector, switchboard, and [illegible] This sheet shall remain with the radio set, mine detector or generator to which it pertains as a permanent [illegible] of the first and second echelon maintenance performed thereon. Deficiencies noted will be reported to the communications officer of the unit. Sample check sheets are attached hereto and additional copies may be obtained on request from Division Signal Officer.

(1) RADIO

a. A period of actual operation is sufficient for the daily check of the transmitter and receiver. The operator should note the relative [illegible] in the intensities at some time during the normal operating period. If a special test check must be made, no unauthorized transmissions will be made. Necessary tests of the transmitter output will be made in such a manner that no information can be obtained by the enemy. This will necessitate the limiting of phone operation to a short, steady whistle into the microphone, sufficiently short that no direction finding equipment can be brought to bear, and the location determined. Ordinarily tubes need not be checked with a tube checker unless there is indication of poor performance. Such indications usually are loss of sensitivity, weak signals, distortion, etc. All transmitters and receivers not regularly in use should be tested and inspected monthly for deterioration, rust, broken parts, working condition, and general performances.

(2) MINE DETECTORS.

a. The operation and care of Mine Detector SCR-625 requires special attention due to conditions under which it must operate and the comparatively delicate design features incorporated in its construction. Experience has indicated that one of the primary causes of the difficulties encountered in the use of this equipment is that operating personnel have not had adequate training in operation and maintenance.

b. The operation of Mine Detector SCR-625 is bases upon a balanced mutual inductance bridge. This bridge which consists of three (3) coils must be carefully balanced by trained personnel or satisfactory results cannot be obtained. Inasmuch as the inductance bridge, which is housed in the

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search coil assembly, is delicate and critical in tuning, it must be handled with care and be kept waterproof. Moisture in the inductance coils will very quickly corrode them so that it will be very difficult, if not impossible, to materially waterproof the mutual inductance coils and thereby prevent much of the troubles caused by moisture.

c. When the detector is operating at full sensitivity, a surge current is induced into the coils when a large amount of metal comes in the proximity to the search coils. Care must be taken when such conditions prevail or the meter will be seriously damaged. A sudden full scale deflection can bend the meter indicator needle or distort the hair spring to such an extent that it will not assume its original shape.

d. It is essential that the spare tubes and batteries carried with mine detectors be checked regularly. Experience has shown that vacuum tubes frequently become damaged during transit and batteries deteriorate rapidly with age and are in an unserviceable condition when set is required for mine sweeping.

(3) TELEPHONE EE-8.

a. Telephone EE-8 requires a minimum of maintenance for satisfactory operation. Every effort must be made to keep the instrument dry and clean. In an emergency telephones which have become wet can usually be restored to service by placing them in a warm place until they are thoroughly dry. They must be turned in to a higher echelon for repair as soon as possible. The cord should never be wound around the handset, rather it should be doubled up along side the handset and placed in the compartment provided for it. Strain ties should be inspected to insure that cord connection will not be broken. Batteries should be replaced every two weeks. Telephones which are not in use or in storage must have the batteries removed.

(4) SWITCHBOARDS.

a. Daily maintenance of switchboards should be limited to good operating practice including such things as keeping the board clean and dry, removing twists from cords, checking for loose or missing screws. Operators frequently do more harm than good by attempting to repair units. Defective units should be replaced and the inoperative units sent to a higher repair echelon. Unnecessary use of the night alarm soon runs down batteries and should be avoided. Switchboards should always be mounted in such a way that cords can not touch the ground.

By command of Major General PRICHARD:

W P JOHNSON,
Colonel, Infantry,
Actg. Chief of Staff.

OFFICIAL: (H Curtis (ws)

C A CURTIS,
Lt Col, GSC,
A C of S, G-3.

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ITEMS OF PREVENTIVE MAINTENANCE, SCR-506

To be performed monthly and after operational period.

Item	Action
(1) Brushes of dynamotor DM-40-A or DM-41-A	(1) Remove all carbon particles which have accumulated around the brushes. Check for wear, replace if necessary and note under remarks.
(2) Brushes of Dynamotor DM-42-A or DM-43-A	(2) Inspect for wear, replace if necessary and note under remarks.
(3) Commutator of Dynamotors DM-42-A or DM-43-A and DM-40-A or DM-41-A	(3) Inspect commutator [illegible] monthly, and clean only as required.
(4) Bearing of Dynamotor DM-40-A or DM-41-A	(4) Lubricate after 2,000 hours of [illegible] operation. Inspect, lubricate if necessary, and note under remarks.
(5) Bearings of Dynamotor DM-42-A or DM-43-A	(5) Lubricate after 2,000 hours or one year of operation, whichever is first, and [illegible] if necessary.
(6) Transmitter UNIT-control mechanism, and transmitter and receiver main capacitor gang gear and bearings.	(6) All bearings in the transmitter UNIT control mechanism and the transmitter and receiver main capacitor gang are ball bearings, lubricated and sealed at the factory. No lubrication is required for these items. Clean gears according to instructions. If operated more than 500 hours since last monthly check, perform this item of maintenance and note under remarks.
(7) Transmitter switches	(7) Clean the contacts and ceramic surfaces which rub together, with carbon tetrachloride. If operated more than 500 hours since the last monthly check, perform this item of maintenance and note under remarks.
(8) Shafts, thrust washers, positioning devices, keying relay bearings, and bearings in radio set, SCR-506.	(8) Lubricate with US. Spec. 2-27-D. If operated more than 500 hours since the last monthly check, perform this item of maintenance, and note under remarks.

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[illegible] WEEKLY CHECK SHEET
PREVENTIVE MAINTENANCE [illegible]

Vessel No. _____

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Brushes, DM-40-A, or DM-41-A												
2. Brushes DM-42-A, or DM-43-A												
3. Commutators DM-42-A, 43-A, 40-A, 41-A												
4. Bearings DM-40-A, or DM-41-A												
5. Bearings DM-42-A, or DM-43-A												
6. Gears												
7. Transmitter switches												
8. Shafts, bearings, keying rings, bearings												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
9. Unsatisfactory items brought to the attention of communication officer.												
10. All previously reported unsatisfactory items corrected.												

Remarks:

Date _____ Organization _____

Signature _____

Rating _____

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ITEMS OF PREVENTIVE MAINTENANCE, SCR-506-A

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To be performed weekly:

ITEM	ACTION
(1) Jacks and plugs, on key, microphone, headset, switch-box, receiver, and transmitter	(1) Check for varnish, corrosion, and cleanliness of all contacts. See that all plugs, jacks, and key contacts are capable of good electrical contact.
(2) Cable plugs and contacts	(2) Check contacts for cleanliness on receptacle J302A and plug P302 on the receiver, receptable J161 on the mounting, and plug P161 on the transmitter. When necessary, clean with a cloth and solvent, dry cleaning.
(3) Cords on headset, microphone, and key.	(3) Make sure that they are in good condition. Look for breaks in insulation around plugs and headset connections.
(4) Cables	(4) Check the condition of the cables and clean off all dirt and grease.
(5) Mast sections	(5) Clean and tighten all joints of mast sections. Retape loose joints.
(6) Mast Base	(6) Make sure that it is securely fastened to the vehicle.
(7) Grounding straps	(7) Remove all dirt, grease and foreign material. Check for tightness of the grounding straps across the rubber feet of the mounting.
(8) Switches and control handles	(8) Check for freedom of operations. Two setscrew wrenches are provided on the inside of the receiver case at the rear, for tightening loose controls. Six wrenches are also provided within the P-4 coil compartment.
(9) Interior of receiver and transmitter	(9) With the power off, remove receiver BC-652, and transmitter, BC-653, from mounting and blow out accumulated dust and dirt.
(10) Air filters in receiver and transmitter	(10) Blow out accumulated dust and dirt. Replace with a new filter if the accumulation is too great.
(11) Tubes	(11) Check to see that all vacuum tubes are securely seated in their socket and the cap connections are secure.
(12) Fuses	(12) Condition and contact. Check the main line, transmitter, and receiver fuse holders for a clean, firm contact. Check for correct quantity of spare fuses.
(13) Batteries and supply terminals	(13) Check condition and charging rate.

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WEEKLY CHECK SHEET
PREVENTIVE MAINTENANCE-RADIO SET, SCR-506-A

Serial No. _____ RESTRICTED

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Jacks and Plugs												
2. Cable plugs, contacts												
3. Cords												
4. Cables												
5. Mast sections												
6. Mast base												
7. Grounding straps												
8. Switches, controls												
9. Interior surfaces												
10. Air filters												
11. Tubes												
12. Fuses												
13. Batteries												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
14. Unsatisfactory items reported to commanding officer												
15. Unsatisfactory items corrected												

Remarks:

Date _____ Organization _____

Signature _____

Rating _____

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253 RESTRICTED

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ITEMS OF PREVENTIVE MAINTENANCE, [illegible] - SCT-509

To be performed weekly.

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ITEM	ACTION
(1) Control knobs and switches.	(1) Make sure that the knobs and switches are not loose, that they are in good condition.
(2) Cords and cables	(2) Make sure that the cords, cables, & their fittings are in good operating condition, free from grease, dirt, & foreign matter and have no breaks in the insulation.
(3) Contacts of jacks and receptacles.	(3) Check for cleanliness. Be sure the connector plug and receptacle joining the receiver and transmitter to plate supply unit, to power supply unit, to case are coupled together securely.
(4) Transmitter output and Receiver sensitivity.	(4) Check the power output on each channel to be used. Check the sensitivity of each channel to be used, against the noise level.
(5) Hinges and latches.	(5) Inspect for general condition and freedom of operation. Oil when necessary with U.S.A. Spec. 2-27D (Aircraft instrument and machine gun oil).
(6) Interior.	(6) Blow out accumulated dust. In using air hose, be sure any condensed water is removed before applying air stream.
(7) Tubes and crystals.	(7) Make sure that tubes and crystals are securely clamped in their sockets.
(8) Antenna.	(8) Remove dirt, rust, and corrosion. Tighten all screws and bolts in mounting and bracket.
(9) Desiccator.	(9) Check the condition of the desiccator by looking through the perforations in the desiccator coverplate. When the color changes from blue to pink, replace.
(10) Vibrator.	(10) Check the vibrator for ease of starting. Check voltage according to instructions in para. 9, TM-11-605.
(11) Paint.	(11) Repaint where necessary.
(12) Battery condition.	(12) Check vehicular battery according to TM-9-710. Check BA-40 and BA-39 with voltmeter.

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[redacted]

PREVENTIVE MAINTENANCE COMMUNICATION [redacted]

RADIO SET, SCR-510-SCR-509

Serial No. _____

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Control knobs and switches												
2. Cord and cables												
3. Contacts of jacks and receptacles												
4. Transmitter output and Receiver sensitivity.												
5. Hinges and latches												
6. Interior												
7. Tubes and crystals.												
8. Antenna												
9. Desiccator												
10. Vibrator												
11. Paint												
12. Battery												

Enter a check in the form below if action has been completed.

	1	2	3	4	5	6	7	8	9	10	11	12
13. Unsatisfactory item brought to attention of communication officer.												
14. Unsatisfactory reported item factory item corrected.												

REMARKS:

Date _____ Organization _____

Signature _____

Rank _____

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ITEMS OF PREVENTIVE MAINTENANCE, RADIO SET [illegible]-330

RESTRICTED

To be performed weekly:

ITEM	ACTION
(1) Exterior.	(1) Wipe off outside of radio with cloth. Clean antenna insulator.
(2) Battery Compartment.	(2) Remove batteries and examine compartment for corrosion and dirt. Check gasket on battery cover.
(3) Antenna.	(3) Check antenna for dents or breaks. Check off-on switch by pulling out bottom section and listening for hiss in earphone.
(4) Microphone and earphone	(4) Unscrew microphone and earphone caps and examine cords for punctures and breaks.
(5) Press to talk switch.	(5) Check press-to-talk switch for proper operation. Examine rubber covering for cracks and holes.

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WEEKLY CHECK SHEET

PREVENTIVE MAINTENANCE, RADIO SET, SCR-[redacted]

RESTRICTED

Serial No. _____

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Exterior.												
2. Battery compartment												
3. Antenna												
4. Microphone and earphone												
5. Press to talk switch												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
6. Unsatisfactory items brought to attention of communication officer.												
7. Unsatisfactory items previously reported corrected.												

Remarks:

Date _____ Organization _____

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ITEMS OF PREVENTIVE MAINTENANCE RADIO SET, SCR-528-528

To be performed weekly.

RESTRICTED

ITEM	ACTION
(1) Control knobs and switches.	(1) Check that the knobs and switches are not loose, that they are in good condition, and are operating satisfactorily.
(2) Cords and cables.	(2) Check that the cords, cables, and their fittings are in good operating condition, free from grease, dirt, and foreign matter, and have no breaks in the insulation.
(3) Microphone and headsets	(3) Check for operation and condition of plugs and cords.
(4) Transmitter output and Receiver sensitivity.	(4) Check that all [illegible] are tight, clean, and free from rust. Check the [illegible] output on each channel. Check the receiver sensitivity on each channel. Adjust the noise level at 20 M and at 40 M. Check functioning of squelch circuit by tuning in station with squelch on
(5) Push buttons.	(5) Inspect for general condition and freedom of operation. Clean when necessary with kerosene.
(6) Interior.	(6) Blow out accumulated dust, lint, and dirt [illegible] with clean, dry, moisture-free air. Be sure any condensed moisture is removed before applying air stream.
(7) Tubes and crystals.	(7) Check that the tubes and crystals are securely clamped in their sockets.
(8) Antenna.	(8) Remove dirt, rust, and corrosion. Repaint base when necessary. Tighten all screws and bolts in mounting and brackets.
(9) Dynamotors.	(9) Check the dynamotors for excessive mechanical and electrical noise indicating need of higher echelon maintenance.
(10) Paint	(10) Repaint when necessary.
(11) Battery condition	(11) Check for water, corrosion and cleanliness.

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PRE[redacted] MAINTENANCE, RADIO SET [redacted]C-26

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Serial No. _____

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Control knobs and switches												
2. Cords and cables												
3. Microphones and headsets												
4. Transmitter and receiver												
5. Push buttons												
6. Interior												
7. Tubes and crystals												
8. Antenna												
9. Dynamotors												
10. Paint												
11. Battery												

Enter a check in the form below if action has been completed.

	1	2	3	4	5	6	7	8	9	10	11	12
12. Unsatisfactory items brought to attention of communication officer												
13. All previously reported unsatisfactory items corrected.												

Remarks:

Date _____ Organization _____

Signature _____

Rating _____

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ITEMS OF [illegible]VENTIVE MAINTENANCE, RADIO SET [illegible]R-300

RESTRICTED

TO BE PERFORMED WEEKLY:

ITEM	ACTION
(1) Plugs and jacks, microphones and headsets.	(1) Clean plugs with plug polish. Check headphone and microphone jacks. Examine cords for breaks around plugs.
(2) Antennas.	(2) Check both antenna for rust and bent sections. Check grounding lead on AN-130-A.
(3) Knobs and controls.	(3) Insure that all knobs and controls are tight and in good condition.
(4) Tubes.	(4) Check to see that tubes are firmly seated in their sockets and that shield cans are in place.
(5) Exterior.	(5) Wipe outside of set with dry cloth.
(6) Interior.	(6) Clean inside of set with brush or air hose. Examine battery compartment for corrosion.

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WEEKLY CHECK SHEET

PREVENTIVE MAINTENANCE, RADIO SET, SCR-300

RESTRICTED

Serial No. _____

Enter a check in the form below if the item has been found satisfactory.

Item	1	2	3	4	5	6	7	8	9	10	11	12
1. Plugs and jacks, microphone and headsets.												
2. Antennas												
3. Knobs and controls.												
4. Tubes												
5. Exterior												
6. Interior												

Enter a check in the form below if action has been completed.

Action	1	2	3	4	5	6	7	8	9	10	11	12
7. Unsatisfactory items brought to attention of communication officer.												
8. All previously reported unsatisfactory items corrected.												

Remarks:

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ITEMS [redacted] PREVENTIVE MAINTENANCE, TAPE [redacted] TILE [redacted]

TO BE PERFORMED WEEKLY

RESTRICTED

ITEM	ACTION
(1) Knobs, locks and switches.	(1) Examine knobs and handles for looseness (Wrenches are located inside recorder-scanner housing.) Check switches for proper operatio Check screw driver controls to see that they are locked.
(2) Helix.	(2) Clean helix with cloth and carbon tetrachloride.
(3) Rollers.	(3) Check rubber rollers for wear and unevenness. Check metal rollers for freedom of movement. Lubricate with light oil if indicated.
(4) Optical system.	(4) Examine mirrors and rotating prism for dust and dirt. Use only soft brush to clean.
(5) Plugs and cables.	(5) Check plugs to determine if they fit tightly in their sockets. Examine cords for breaks in insulation.

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WORK CARD SHEET

PREVENTIVE MAINTENANCE, TAPE FACSIMILE EQUIPMENT, RC-58

Serial _____

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Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Knobs, locks and switches.												
2. Belts.												
3. Rollers.												
4. Optical system.												
5. Plugs and cables.												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
6. Unsatisfactory items brought to attention of communication officer.												
7. All previously reported unsatisfactory items corrected.												

Remarks:

Date _____ Organization _____

Signature _____

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ITEMS OF PREVENTIVE MAINTENANCE, SWITCHBOARDS

TO BE PERFORMED WEEKLY

RESTRICTED

ITEM	ACTION
(1) Plugs and cords	(1) Plugs should be clean and bright. Polish with plug polish. Repair or replace worn or defective cords.
(2) Panel lights.	(2) Examine bulbs for burn-outs, Repla
(3) Batteries.	(3) Check battery compartment for evidence of corrosion. Replace batteries if necessary. If board is no in use, remove batteries.
(4) Connections.	(4) Examine for loose or broken connections.

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ITEMS OF PREVENTAVE MAINTENANCE - SWITCHBOARDS

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SERIAL No._____

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Plugs and sockets.												
2. Panel lights.												
3. Batteries.												
4. Connections.												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
5. Unsatisfactory items brought to attention of communication officer.												
6. All previously reported unsatisfactory items corrected.												

Remarks:

Date_____ Organization_____

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ITEMS OF PREVENTIVE MAINTENANCE, SCR-625

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To be performed weekly:

ITEM	ACTION
(1) Cords and cables.	(1) Check cables for breaks in insulation. Examine plugs for dirty contacts.
(2) Resonator.	(2) Check both resonators for operation
(3) Control box.	(3) Check knobs on compensation control. Check meter for bent pointer.
(4) Search coil.	(4) Examine search coil to determine if it is water proof. If necessary apply several coats of varnish.
(5) Amplifier.	(5) Check for broken or frayed leads. See that adjusting cores are not loose from threaded screws.
(6) Spare tubes and batteries.	(6) Check condition of spare tubes and batteries.

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ITEM 2 REVISED MINE DET STORNOR-625

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Serial No. _____

Enter a check in the form below if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Cords and cables												
2. Resonator												
3. Control box												
4. Search coil												
5. Amplifier												
6. Spare tubes and batteries												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
7. Unsatisfactory items brought to attention of communication officer												
8. All previously reported unsatisfactory items corrected.												

Remarks:

Date _____ Organization _____

Signature _____

Rating _____

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ITEMS OF PREVENTIVE MAINTENANCE, RADIO SET, SCR-[illegible]

RESTRICTED

To be performed weekly:

ITEM	ACTION
(1) Plugs and jacks, keys, microphones and headsets.	(1) Clean plugs with plug polish. Check jacks on under side of transmitter. Check receiver jacks for tarnish.
(2) Cable plugs and contacts.	(2) Check contacts of all plugs in transmitter and dynamotor. Clean with fine sand paper.
(3) Cords on headset, microphone, and key.	(3) Look for breaks around plugs and headset connections.
(4) Mast sections.	(4) Clean and tighten all joints of mast sections. Retape loose joints.
(5) Mast base.	(5) Check that it is securely fastened to vehicle.
(6) Switches and control handles.	(6) Check for freedom of operation. Check set screws for tightness.
(7) Interior of transmitter, receiver and dynamotor.	(7) Blow or brush out dirt from inside of receiver, transmitter and dynamotor, BD-77.
(8) Tubes.	(8) Check tubes for loose elements by tapping tube while set is turned on. Replace weak tubes.
(9) Fuses and fuse holders.	(9) Check for condition and contact. Check spare fuses. Replace if necessary.
(10) Paint.	(10) Repaint where necessary.
(11) Battery	(11) Check vehicular battery for water, corrosion and general condition.

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WEEKLY CHECK SHEET
FRIEND[redacted] MAINTENANCE, RADIO SET, SCR-[redacted]

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Serial No.

Enter a check in the form below if the item has been found unsatisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. [illegible] microphones and headsets.												
2. Cable plugs and contacts.												
3. [illegible] cone, and key.												
4. [illegible] mast sections.												
5. [illegible] mast base.												
6. Switches & control handles												
7. [illegible] receiver and dynamotor.												
8. Tubes.												
9. Fuses and fuse holders.												
10. Paint.												
11. Battery.												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
12. Unsatisfactory items brought to attention of communication officer.												
13. All previously reported unsatisfactory items corrected.												

Remarks:

Date _____ Organization _____

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ITEMS OF [illegible] SCR-193

To be performed monthly and after operational period.

ITEM	ACTION
(1) Brushes of dynamotor, BD-77	(1) Clean carbon particles from around brushes. Replace all worn brushes and note under remarks.
(2) Brushes of dynamotor, DM-21	(2) Clean carbon particles from around brushes. Replace all worn brushes and note under remarks.
(3) Commutator of dynamotors, BD-77 and DM-21	(3) Inspect commutator for grooves and tarnish. Clean with fine sandpape Turn armature by hand with power
(4) Dynamotor bearings.	(4) Lubricate with 1 or 2 drops of light motor oil of both BD-77 and DM-21. Wipe off any excess oil around oil holes.
(5) Miscellaneous lubrication.	(5) Oil SAE 20 - Switch shafts in transmitter, tuning units, and receiver. Grease - pivots of antenna switching relay, contacts of switches in transmitter and transmitter tuning units.
(6) Transmitter rotating inductor.	(6) Check rotating coil in transmitter for wear and cleanliness. A piece of cloth moistened with carbon tetrachloride will usually remove corrosion. If corrosion is extremely bad, fine sandpaper may be used.

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PREVENTIVE MAINTENANCE, RADIO SET [illegible]

Serial No. _____

Enter a check in the form if the item has been found satisfactory.

ITEM	1	2	3	4	5	6	7	8	9	10	11	12
1. Brushes of dynamotor BD-77												
2. Brushes of dynamotor, DM-21												
3. Commutators of dynamotors, BD-77 and DM-21.												
4. Dynamotor bearings												
5. Miscellaneous lubrication.												
6. Transmitter rotating inductor.												

Enter a check in the form below if action has been completed.

ACTION	1	2	3	4	5	6	7	8	9	10	11	12
7. Unsatisfactory items brought to the attention of communication officer.												
8. All previously reported unsatisfactory items corrected.												

Remarks:

Date _____ Organization _____

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HEADQUARTERS [illegible] DIVISION

[illegible] October, 1942 [illegible]45

SIGNAL INSTRUCTION)

NUMBER.....19-2)

FIELD WIRE COMMUNICATION

Reference FM.24-5, 19 October, 1942, Chapter 8.

1. GENERAL:

In order to attain satisfactory wire communications within this Division during the winter months, extreme care must be taken to insure that all wire lines are properly laid and policed.

2. CONSTRUCTION OF WIRE LINES:

The construction of wire lines, in the event of snow, will be facilitated by the following:

a. The lines will be laid off the ground as much as possible. All crossings over roads will be at least 14 feet above the road bed and, if possible, crossings under roads will be by use of culverts or bridges.

b. The tying of wire lines and the leaving of sufficient "slack" during construction is important.

c. The frequent tagging of lines will be practiced.

d. The field wire splice will be used at all times. Ref. Para. 185, FM 24-5, dated October 19, 1942.

e. The use of seizing wire and the proper taping of the splice will be stressed.

f. Wires terminating at an installation will be securely tied, tagged, and have a "Drip Loop" sufficient to prevent water from running down the wire into the installation.

g. The use of standard field wire ties will be practiced. Ref. Par. 180, FM 24-5 dated October 19, 1942.

3. MAINTENANCE OF WIRE LINES:

a. Maintenance of field wire systems is largely dependent upon the original construction. Wire properly routed and laid will greatly overcome the interruption of communications.

b. An alert maintenance crew, making routine tests and frequent patrols of wire lines, will often be able to prevent or clear the trouble before interruption of the service results.

4. CONSERVATION OF FIELD WIRE:

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The conservation of field wire will be practiced by all communicati personnel of this Division.

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a. Whenever possible all abandoned circuits will be recovered and wire which is not usable will be turned into the Division Signal Supply Dump. The standard considered satisfactory for serviced wire to be reused as follows:

(1) Insulation will be reasonably good; such that trouble will not occur upon reuse when the wire is wet.

(2) No single length will be less than one hundred (100) feet.

(3) No more than twenty-five (25) splices per mile. In all cases splices will be staggered and wrapped with rubber and friction tape.

b. Care will be taken to preserve all empty wire reels. They will not be left along wire routes, but will be stored in suitable park areas. Reels in excess of the needs of any unit for wire recovery will be turned into the Division Signal Supply Dump.

c. Whenever a unit is unable to recover a circuit no longer required, that fact, together with information as to its location and terminals, will be reported promptly to the Division Signal Officer who will then assume responsibility for prompt recovery and servicing of the wire.

5. CARE AND OPERATION OF EQUIPMENT.

a. The proper operation and maintenance of field wire and telephone equipment will greatly improve the communication efficiency of this Division. The periodic inspection of this equipment by the Communication Officer will detect the deficiencies prior to the actual breakdown. Necessary repairs and alterations of this equipment should be made only by trained personnel.

b. The original installation of the equipment should be under the supervision of the Communication Officer. After correct installation the following should be enforced to assure good communication.

(1) Batteries should be exchanged in all telephones and switchboards at least once every two (2) weeks.

(2) All operators should use the correct telephone phraseology and procedure.

(3) There should be no more than two (2) telephones partied on same line.

6. Traffic diagrams and line route maps covering each installation will be submitted to Division Headquarters by all units. Corrected Traffic Diagrams and Line Route Maps will be submitted at least weekly and/or whenever a major change in telephone circuits is made.

7. Monthly wire reports will be submitted by all units so as to reach this Headquarters not later than the last of each month. These reports will include the following information:

a. Amount of field wire on hand.
b. Amount of field wire abandoned during the month.
c. Amount of field wire recovered during the month.
d. Amount of field wire laid during the month.

By command of Major General PICKARD:

OFFICIAL:

C. A. CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

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HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U S Army

21 January, 1945.

SIGNAL INSTRUCTION)
NUMBER.....12-1)

208

PREPARATION OF DUMMY TRAFFIC

NOTE: This item supersedes Signal Instruction Number 12, this Headquarters 1 October, 1943, which will be destroyed not later than 15 February, 1945.

1. PREPARATION:

The following rules will be observed by all units in the preparation of dummy traffic to be transmitted by radio:

a. CONVERTOR, M-209, together with current key and indicator will be used.

b. Dummy messages will be identified by the insertion of the word 'DUMMY' at some point within the first twenty code groups of the code text, but not as the first group. The word 'Dummy' will not be set off from the remainder of the text in any other way than normal spacing and will never be sent in clear text.

c. The text will consist of random and disconnected words, not 'catchy phrases'. One means of choosing these words would be to extract every fifth word from a newspaper or book.

d. Immediately following and preceding the text, a varying number of random letters will be used. The number of letters so employed will vary from one to twelve. Such padding will be separated from the message text by one or two spaces. See Signal Instruction Number 5-3 par 7 (c), this Headquarters, 16 July 1944.

e. Classification precedence, length, distribution and destination will be patterned as closely as possible after the authentic traffic handled by the originating unit. With this in mind, complete schedule for each day's dummy traffic will be prepared in advance, allowance being made for expected normal traffic. Individual messages based on the scheduled specifications will then be constructed as the need for them arises. Careful supervision will be exercised to insure that the authentic and dummy traffic are combined in such a way as to present the desired radio picture.

f. Statement of origin and destination (CODRESS) will not be included in the body of the message.

g. Services on dummy messages will be asked for and given in the same ratio as is made necessary by cryptographic errors.

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h. Only cryptographic personnel will know which code text are dummies. In that way all messages, both dummy and authentic, will be handled by message center and radio personnel with the same speed and accuracy.

2. MISCELLANEOUS:

The following is a list of discrepancies most likely to occur in the preparation and transmission of dummy traffic:

a. Lack of variation in length.
b. Carelessness of sending.
c. Tendency toward abnormal distribution.
d. No indication as to precedence.
e. Improper headings, and use of the word 'dummy' in the clear.

Every effort must be exercised to pattern dummy traffic after authentic traffic by the unit concerned.

By command of Major General PRICHARD:

W. P. JOHNSON,
Colonel, Infantry,
Actg. Chief of Staff.

OFFICIAL: C. A. Curtis
C. A. CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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208

If two letters are used, it indicates that it is to be used between two standard zones in use. Detailed information on the use of times and the time zone suffixes may be obtained from [illegible] "Handling of Messages", 29 July [illegible].

4. It will be SOP for the Division Message Center to notify each unit of official time three times daily. This will be done by [illegible] and 2100Z hours. Units which are not served by the above means will be notified by telephone.

5. Time signals may be obtained on the following frequencies at the hours shown:

TIME	FREQUENCIES (Kc)
0000A	11750 - 17810
0100A	15250 - 17810
0200A	17670 - 21470
0300A	17670 - 21470
0400A	17670 - 21470
0500A	17670 - 21470
1600A	17670 - 21470
1700A	By command of Major General [illegible]: 11750 - 15260 - 17810
1900A	11750 - 11860 - 15260
2100A	9600

871

The final tone of the time signal is the exact hour.

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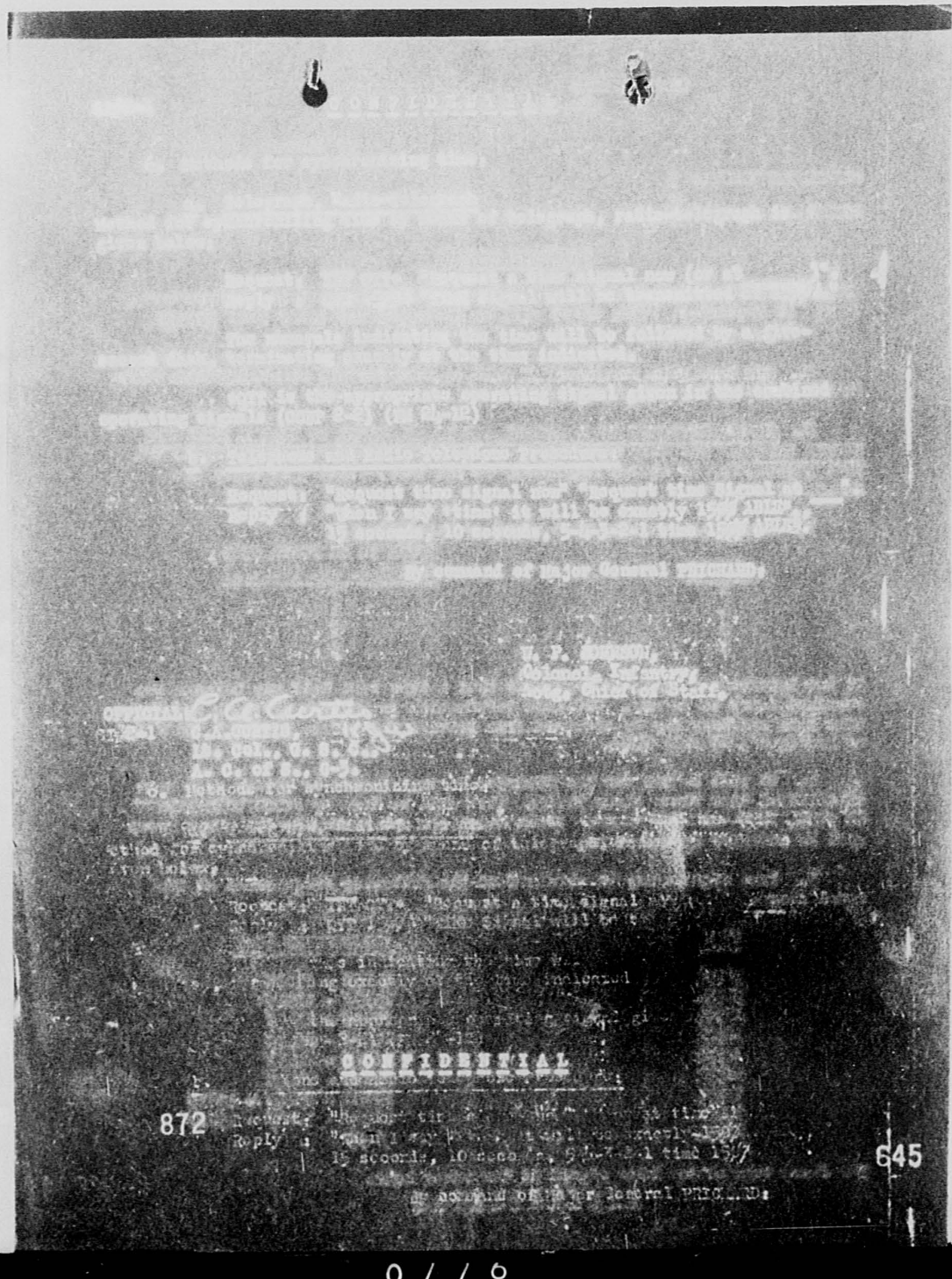
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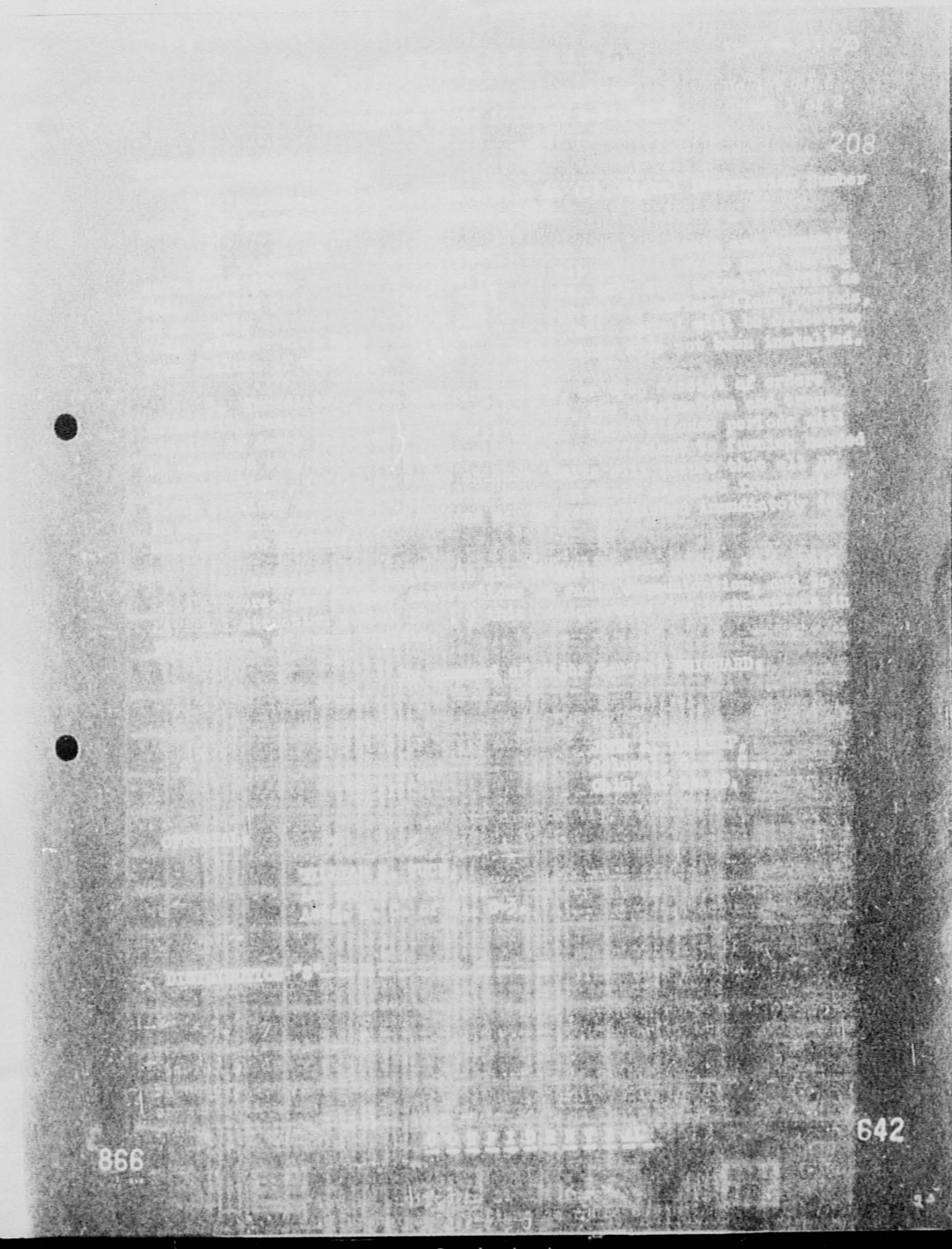


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CONFIDENTIAL

Item No. 30-10

SIGNAL OPERATION INSTRUCTIONS
"RADIO LINK SIGNS"

Hq 1st Armd Div.
Sheet 1 of 2

Effective 31[illegible] December, 1944.

UNITS	DECEMBER-JANUARY	Sun	MON	TUE	WED	THR	FRI	SAT
		31	1	2	3	4	5	6
[illegible] Div (All Nets)		DJG	LMO	TRO	AMH	OTC	FVT	DJG
[illegible] Div (All Nets)		PYO	HOR	ATV	SWH	XLN	XYQ	PYO
1st Armd Div (Lateral Link A)		FKY	EKU	XZT	XRJ	IVK	FUH	FKY
1st Armd Div (Lateral Link B)		FJH	AKH	NZY	JBO	ZBX	DYC	FJH
1st Armd Div (Rear Link A)		VGQ	DNT	PLM	GXV	TSP	ORS	VGQ
1st Armd Div (Rear Link B)		IRT	VQC	HEV	YUX	LCU	PXS	IRT
1st Armd Div Arty (Arty Hr Link A)		MNK	MST	KLS	ACB	LPL	TWD	MNK
1st Armd Div Arty (Arty Hr Link B)		PVL	IYG	OSC	OGD	JRS	RYL	PVL
Commanding Officer Combat Command A		IHR	LUU	PNX	MOF	UCL	VQM	KJV
Commanding Officer Combat Command B		EDA	CFU	KUF	LGG	MHG	MVB	MMA
Ammunition Control point 1st Armd Div		OCB	JEH	UQS	XFX	CCT	THZ	BIV

II	31	1	2	3	4	5	6
1st Armd Div Arty (Rr Link Comd Net)	AXU	VQJ	RYT	IWC	AFW	ZSD	AXU
1st AD Res Comd (Rr Link Comd Net)	BKR	HGV	AXQ	TUA	RAQ	XUL	BKR
CC "A" (Rr Link Comd Net)	ARY	YXT	TDJ	RVZ	KTO	KML	ARY
CC "B" (Rr Link Comd Net)	TPE	OSV	VXK	LXL	TBS	SMX	TPE
1st Tank Bn (Rr Link Comd Net)	OUX	OQG	OZJ	TGO	NAJ	DTA	OUX
4th Tank Bn (Rr Link Comd Net)	RPK	FNC	AQU	MOI	TDH	YMI	RPK
13th Tank Bn (Rr Link Comd Net)	IDB	GLH	YBV	DNK	ZNB	XHP	IDB
6th Armd Inf Bn (Rr Link Comd Net)	AZQ	FMA	DEN	UNK	VAU	REO	AZQ
11th Armd Inf Bn (Rr Link Comd Net)	BFT	SVL	AEY	WIQ	EJP	YHG	BFT
14th Armd Inf Bn (Rr Link Comd Net)	WJI	KTF	VRT	ZXC	RVR	END	WJI
81st Cav Ron Sqdn (Rr Link Comd Net)	EBD	VZI	NPT	AOS	TXO	SNS	EBD

III	31	1	2	3	4	5	6
1st Armd Div Arty (Rr Link Ron Net)	NHG	NTF	XNB	LNE	ZC7	IDX	NHG
1st AD Res Comd (Rr Link Ron Net)	HGC	BJI	LDU	TK7	EOU	OZT	HGC
CC "A" (Rr Link Ron Net)	ISO	YBI	JUN	IGJ	DTC	TKI	ISO
CC "B" (Rr Link Ron Net)	YGZ	ZTX	DXR	XOS	JLC	MGS	YGZ
1st Tank Bn (Rr Link Ron Net)	KDI	EIA	HRZ	DQS	KYX	GHS	KDI
4th Tank Bn (Rr Link Ron Net)	TN7	UIZ	HBZ	TQZ	PHP	UKR	TN7
13th Tank Bn (Rr Link Ron Net)	FLS	PMO	MDE	UHN	ZHJ	NJB	FLS
6th Armd Inf Bn (Rr Link Ron Net)	TCQ	DCJ	BPJ	ESP	YNY	OCV	TCQ
11th Armd Inf Bn (Rr Link Ron Net)	HXZ	ONT	YBG	OED	CVD	ZMD	HXZ
14th Armd Inf Bn (Rr Link Ron Net)	JPL	YJT	CJQ	UMY	XOT	CTX	JPL
81st Cav Ron Sqdn (Rr Link Ron Net)	KED	TRC	DEV	DOD	USM	VUZ	KED

IV	31	1	2	3	4	5	6
1st Armd Div Arty (Rr Link Adm Net)	NFU	BUT	FDZ	UNZ	HYT	MAT	NFU
1st AD Res Comd (Rr Link Adm Net)	DKD	HBN	AFG	UJS	EPN	SDL	DKD
CC "A" (Rr Link Adm Net)	BJC	LSK	IJE	JHO	JZE	KHE	BJC
CC "B" (Rr Link Adm Net)	UCV	TUY	EIT	HCG	NZE	FYI	UCV
1st Tank Bn (Rr Link Adm Net)	YDU	LSV	GYD	ERP	DZU	AKD	YDU
4th Tank Bn (Rr Link Adm Net)	KIZ	HZG	RYH	TFD	DTX	PHX	KIZ
13th Tank Bn (Rr Link Adm Net)	NHA	HTM	EVT	DYQ	AOL	TJE	NHA
6th Armd Inf Bn (Rr Link Adm Net)	LLO	RUV	MPK	KMK	BCB	OTH	LLO
11th Armd Inf Bn (Rr Link Adm Net)	IDN	ERF	VKF	VJE	BLC	DRD	IDN
14th Armd Inf Bn (Rr Link Adm Net)	DAG	XDZ	RGC	VCJ	LEX	JAH	DAG
81st Cav Ron Sqdn (Rr Link Adm Net)	EAG	IBG	IYA	FMD	AHG	LXJ	EAG

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Item No. 30-7

SIGNAL OPERATION INSTRUCTIONS
"RADIO LINK SIGNS"

Hq 1st Armd D
Sheet 2 of 2

Effective 3101200A December, 1944.

UNITS	DECODING-JANUARY	SUN	MON	TUE	WED	THU	FRI	SAT
V		31	1	2	3	4	5	6
CC "A" (Air Docmost)		JOL	UED	DCT	CIL	PCY	ZHP	JOL
CC "B" (Air Docmost)		GFU	GJG	YPU	CHH	PZB	XHH	GPU

VI		31	1	2	3	4	5	6
HQ Troop, 81st Cav Recn Sqdn (Rr Link)		DRE	HLH	DKC	ZUA	VDH	HLK	DRE
A Troop (Rr Link)		FHH	IQO	JSZ	CHA	EKA	EEA	FHH
B Troop (Rr Link)		DHH	LFT	FCV	WUY	EHJ	XIU	DHJ
C Troop (Rr Link)		AZT	TFK	WJG	OOJ	XBT	FUH	AZT
D Troop (Rr Link)		FLH	ZEH	JTG	UJM	VDE	FLK	FLH
E Troop (Rr Link)		VLF	JXQ	XBZ	FVD	KOM	IVP	VLF
F Troop (Rr Link)		ZVD	MKE	IVD	YQY	JYL	CFV	ZVD

208

VII		31	1	2	3	4	5	6
106th Armd Engr Bn (Rr Link)		MPR	SPB	CRC	KAK	JDX	ALS	MPR
27th Armd FA Bn (Rr Link)		TXC	HFO	CXT	AHA	PTY	DBT	TXC
68th Armd FA Bn (Rr Link)		ISP	INF	UWA	TOQ	NBZ	WHD	ISP
91st Armd FA Bn (Rr Link)		SAD	ARC	WSX	XHG	LLR	WTO	SAD
123rd Ord Maint Bn (Rr Link)		RZH	EKT	GSS	ZJH	JAL	CXQ	RZH
47th Armd Med Bn (Rr Link)		IRD	FII	XDB	UXT	VNU	XUF	LRD
701st TD Bn (Rr Link)		DQD	KMA	NLS	THR	DHC	LSG	IGG
91st Cav Recn Sqdn (Rr Link)		XSH	JOM	JCJ	DMT	CYU	XIZ	CYU
100th Cml Bn (Rr Link)		IVD	KDH	XUT	UVY	EJD	GUU	EAD
330th Inf Regt (Rr Link)		TRF	ZCH	LYP	FDM	XHR	YHQ	TRF
328th FA Bn (Rr Link)		OIP	OTO	RJC	VZL	IPS	TCX	OIP

This schedule will not be taken forward of Hq. of separate Co. Hq.

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:

WILLIAM R. TUCK,
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:

WILLIAM R. TUCK, [illegible]
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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HEADQUARTERS FIRST ARMORED DIVISION
APO 251 U S Army

31 January, 1945.

SIGNAL INSTRUCTION)
NUMBER.....7-1)

208

NOTE: Signal Instruction Number 7, dated 12 September, 1943, will be destroyed not later than ~~midnight~~ February, 1945.

SYMBOLS INDICATING MINE FREE PATHS ALONG OVERHEAD WIRE ROUTES

NOTE: Those symbols will be drawn boldly in white chalk on the poles carrying the route.

1. On the road side of the pole.

a. (S) Pole swept for eight feet all around.

b. ↑ 4 foot path swept between road and pole.

c. → or ← or ↔ 4 foot path swept to pole in direction indicated.

2. On the track (path or trail) side of the pole, if a track (path or trail) runs along the route in addition to the road:

a. ═══ Whole track (path or trail) along side poles swept.

b. ≡ End of swept track.

By command of Major General PRICHARD:

W. P. JOHNSON,
Colonel, Infantry,
Actg. Chief of Staff.

OFFICIAL: C. A. Curtis
C. A. CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U. S. Army

31 January, 1945.

SIGNAL INSTRUCTION)
:
NUMBER.....8-1)

208

PYROTECHNIC AND SMOKE CODE

NOTE: This item supersedes Signal Instruction Number 8, this Headquarters 26 December 1943 which will be destroyed not later than 2112400A Feb. 1944

1. Reference is made to item No. 2b-( )1st Armored Division Signal Operation Instructions for Pyrotechnic and Smoke Code.

2. Colored smoke and Shell signals:

a. Colored smoke shells will not be fired into friendly areas.

b. Yellow smoke or Yellow ground flares may be used to indicate locations of front line troops.

c. Red and Orange will be used interchangeably due to the difficulty of distinguishing between the two colors.

d. White may be used in combination with colored smoke.

e. Infantry boundaries will be marked by three successive rounds of one or more colors fired simultaneously.

f. Infantry objectives will be marked by a four or more round volley of one or more colors fired simultaneously.

g. Targets will be designated to ground or air OP observers by two rounds of one or more colors, fired successively at an interval of from 5 to 10 seconds.

h. Spotting and adjusting rounds will be single rounds with candles of one or more colors.

i. No signal will be repeated at an interval of less than two minutes.

j. All signals designating infantry boundaries or objectives and any other signals which may confuse other units will be coordinated laterally and information sent to the common higher headquarters. Responsibility of coordination rests with the unit using the signal.

By command of Major General PRICHARD:

OFFICIAL: C. A. Curtis
C. A. CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

W. P. JOHNSON,
Colonel, Infantry,
Actg. Chief of Staff.

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HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U.S. Army

208

SIGNAL INSTRUCTION)
NUMBER.....6-1)

NOTE: Signal Instruction Number 6, dated 12 September 1943, will be destroyed not later than 12 PM 12 February, 1945.

AUTHENTICATOR SYSTEM INSTRUCTIONS

1. General.

a. This authenticator system is intended for use in 1st Armored Division only and will appear as 1st AD SOI item No. 6-1( ). The following are its primary purposes.

(1) Message authentication.
(2) Radio Station authentication.

b. The authentication of messages will normally be performed by message center personnel. Where there is no regularly constituted message center, the originator of a message will be responsible for the proper authentication. Authentication of radio stations will be performed by operating personnel.

2. Description of Authentication Table.

a. The table consists of a normal alphabet with three rows of random numbers under each letter. Under the bottom row of numbers is a random mixed alphabet.

b. Sample Table:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
ROW 1	5	6	4	3	2	1	4	5	6	7	8	7	1	7	6	5	4	3	2	1	4	5	6	7	8	1
ROW 2	7	1	9	1	0	9	0	1	6	7	8	1	5	4	3	1	8	3	4	6	5	7	1	4	3	2
ROW 3	4	3	2	0	7	5	4	3	1	2	7	3	8	5	1	9	0	1	7	9	0	1	7	6	9	4
	D	L	O	S	F	G	K	H	N	Q	I	Z	A	V	J	R	B	M	U	E	P	T	C	Y	H	X

3. Procedure for Authentication.

a. To Challenge: Select any three (3) letters at random. These three letters are sent as the challenge.

b. To Reply: Add the numbers appearing under the three letters of the challenge. The first number being taken from the first row, the second number from the second row and the third number from the third row. The correct reply is the sum followed by the letter appearing below the last figure.

c. Example: (using the table above:

Challenge	Reply
JUK	19 I
FTB	20 L
NBS	16 Z
OLJ	99

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1. Under no circumstances will an operator refuse to accept a message because of wrong authentication. However, if a wrong authentication is given that fact should be noted on the message. If time permits another challenge may be used to verify the calling station.

2. After a station has correctly answered a challenge, he will always challenge the other station to verify that station's authenticity.

3. This authentication system will be used by all units of the Armored Division. Each table will be effective for a period not to exceed one day. Each list of tables will be effective for a period not to exceed one week.

By command of Major General WILDRICK:

W. E. ROBINSON
Colonel, Infantry
Acting Chief of Staff

OFFICIAL: C. A. Curtis
C. A. CURTIS,
1st Lt.
Tr. Sec., G. H. Q.
A. C. of S., G-3.

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RESTRICTED Item No. 5a-2.

SIGNAL OPERATION INSTRUCTIONS Hq 1st Armd Div.
"INDEX - 1st AD SIGNAL INSTRUCTIONS" 17 December, 1944.

SIGNAL INSTRUCTION)
: NUMBER.....1-15)

1. All Signal Instructions not fully explained in items of Signal Operation Instructions will be published as an item listed under this index. The index itself is issued as an item of the SOI to provide an accurate check on the effective dates of listed documents.

SI NO.	SUBJECT	DATE
1-15	Index, 1st AD Signal Instructions	17 December, 1944.
2	Standard Time	12 September, 1943.
3	Power Ratings of Radio Sets	15 December, 1943.
4-3	AFCODE Instructions	16 July, 1944.
5-3	Instructions for use of Convertor M-209	16 July, 1944.
6	Authenticator System Instructions	12 September, 1943.
7	Symbols indicating Mine-free paths along overhead wire routes	12 September, 1943.
8	Pyrotechnic and Smoke Code	26 December, 1943.
9-2	Cryptographic Security	31 July, 1944.
10-6	Radio Communication	10 December, 1944.
11-1	Army Code Sign System	30 November, 1944.
12	Preparation of Dummy Traffic	1 October, 1943.
13-2	Message Classification	1 October, 1944.
15-1	Standard Code Names	26 November, 1944.
16-2	Instructions for Map Reference Points Code System	31 July, 1944.
18-2	Field Wire Communication	30 November, 1944.
19-2	Pigeon Communication	8 August, 1944.
20-1	Preventive Maintenance for Signal Corps Equip	10 December, 1944.
21-1	Standard Operating Procedure for Facsimile Equipment o. Radio and Wire Nets	17 December, 1944.

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL: William R. Tuck
WILLIAM R. TUCK,
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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SIGNAL OPERATION INSTRUCTIONS Item No. 4a-8

"TELEPHONE DIRECTORY"

Effective 300100A December, 1944.

ORGANIZATION	CODE NAME	ORGANIZATION	CODE NAME
Hq 1st Armored Division	WARRIOR	Allied Force Hq	FREEDOM
Combat Command A	WARSHIP	15th Army Group	FILPOT
Combat Command B	WARHAWK	Fifth Army	LIGHTNING
141st Armd Signal Co.	WELCOME	P. B. S.	VALUE
Hq Co, 1st Armd Div.	WAFFLE	II Corps	SPEEDY
MP Platoon, 1st Armd Div.	WACKY	II Corps Artillery	LIBERTY
1st Tank Battalion	WALNUT	IV Corps	KEYSTONE
4th Tank Battalion	WALRUS	IV Corps Artillery	KENTUCKY
13th Tank Battalion	WEASEL	34th Inf Division	WICKED
6th Armd Inf Battalion	WALLOP	34th Inf Div Artillery	WIGWAG
11th Armd Inf Battalion	WAGON	85th Inf Division	HARPOON
14th Armd Inf Battalion	WENTWORTH	85th Inf Div Artillery	HOOK
81st Cav Recn Sqdn (Mecz)	WANDER	88th Inf Division	LEGION
16th Armd Engr Bn	WEEDY	88th Inf Div Arty (Adv)	LONELY
Hq Btry, Div Arty, 1st AD	WESTERN	88th Inf Div Arty (SV)	LOFTY
27th Armd FA Bn	WESTBROOK	91st Inf Division	DARE
68th Armd FA Bn	WESTFIELD	91st Inf Div Artillery	DYNAMITE
91st Armd FA Bn	WESTWOOD	92nd Inf Divison	DIKE
123rd Ord Maint Bn	WELDER	92nd Inf Div Artillery	DIXIE
47th Armd Med Bn	WARDROOM	1st Inf Div (BEF)	LUTA
Train Hq Co, 1st AD	WEATHER	(American Board)	LUGAR
701st TD Bn	HAVOC	6th SAAD	KENSINGTON
		45th AAA Brigade	LASALLE
751st Tank Bn	RACCOON	805th TD Bn	SERPENT
894th TD Bn	TORPEDO	757th Tank Bn	RACCOON WHITE
		91st Cav Recn Sqdn (Mecz)	SCOUT

The rear echelon, service echelon, observation post, advance command post, railhead or other distant establishment pertaining to a headquarters, takes the name of the Headquarters, followed by an appropriate single word or generally used spoken designation such as Rear, Service, OP, Advance, Rail, Switch, Collect No. 1, etc.

TELEPHONE CODE NUMBERS - OFFICES

1. G-1 or S-1	11. Message Center	21. Quartermaster
2. G-2 or S-2	12. Spec. Service Officer	22. Artillery Officer
3. G-3 or S-3	13. Aide-de-camp	23. Chemical Officer
4. G-4 or S-4	14. Air Support Officer	24. Liaison Officer
5. Chief of Staff	15. Engineer Officer	27. PM & Hq Comdt.
6. Commanding General	16. Surgeon	31. Wire Chief
7. Adjutant General	17. Judge Advocate	33. Public Phone
8. Ordnance Officer	18. Finance Officer	45. Wire Officer
9. Inspector General	19. Chaplain	88. Ammunition Officer
10. Signal Officer		

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL: William R. Tuck

WILLIAM R. TUCK
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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SIGNAL OPERATION INSTRUCTIONS
"RADIO NETS"

Item No. 3a-7
Hq 1st Armd Div.
Sheet 1 of 1

Effective 17/18 December, 1944.

1. Radio nets of this headquarters will normally include the stations indicated below. Radio nets of subordinate units, other than those listed below will be netted in accordance with instructions issued by commanding officers of units concerned.

a. Division Command Net:

* G-3, 1st Armored Division
** Chief of Staff, 1st Armored Division
** Commanding General, 1st Armored Division
Combat Command A
Combat Command B
CO Division Reserve
CO Division Artillery
16th Armored Engineer Battalion

b. Division Reconnaissance Net:

* G-2, 1st Armored Division
Combat Command A
Combat Command B
81st Cavalry Reconnaissance Squadron

c. Division Administrative Net (Facsimile)

* G-4, 1st Armored Division
Combat Command A
Combat Command B
Division Rear Echelon
16th Armored Engineer Battalion
CO Division Reserve
Ammunition Control Point
47th Armored Medical Battalion
123rd Ordnance Maintenance Battalion
Liaison Radio Tracks

*NCS
** May appear in any net.

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:

William R. Tuck

WILLIAM R. TUCK,
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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Item No. [illegible]

SIGNAL OPERATION INSTRUCTIONS
(Use numerals below code)

No. 1st Army Gp.
Sheet 1 of 1

Effective 31/0001A December, 1944.

1. See Signal Instructions Number 1408, this Headquarters dated 31 July, 44.

208

2. Reference Points and Direction Encoding Table for the period 31/0001A December, 1944 to 7/0959A January, 1945 are as follows:

AREA "F"	AREA "G"	AREA "K"	AREA "L"	AREA "M"	AREA "N"	AREA "P"
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Q3098 L	[illegible] D	L6098 Y	L7079 D	L9096 J	L9998 U	M0099 B
Q5116 K	Q2112 G	L6080 X	L7800 K	L9040 K	L9994 T	M0065 A
Q4094 J	[illegible]	L6098 U	L7094 J	L9040 L	L9998 S	M0077 Y
Q4106 M	[illegible]	L6112 A	L7094 O	L9040 T	L9992 V	M0089 Z
Q5092 I	L7116 P	L7023 V	L7901 Y	L8952 U	L6618 A	M0092 U
Q5098 O	L2229 T	L7020 U	L7912 D	L9096 S	L9621 S	M1401 V
Q5115 Q	L2249 U	L7023 A	L7915 H	L9068 Q	L9928 S	M1402 V
Q6104 A	L2269 V	L7040 S	L8125 E	L9070 R	L9997 D	M1415 S
Q6108 H	L3290 X	L7048 Q	L8152 Q	L9073 S	L9994 R	M1419 S
Q7111 B	L4107 X	L7052 R	L8132 P	L9080 M	L9993 C	M1029 Q
Q7120 C	L4116 O	L7058 E	L8143 R	L9088 N	L9989 O	M1040 N
Q8096 G	L4019 P	L7062 Q	L8147 S	L9092 R	L9961 P	M1043 K
Q8110 D	L4062 Q	L7070 N	L8156 Q	L9098 O	L9946 D	M1050 L
Q8098 E	L4064 R	L7073 L	L8160 L	L9105 E	L9970 Q	M1060 U
Q8117 F	L4080 S	L7082 M	L8189 O	L9111 T	L9976 R	M1063 H
Q9096 P	L4098 T	L7093 K	L8143 N	L9116 X	L9979 W	M1071 O
R0008 Y	L4115 N	L7101 J	L8181 P	L9528 T	L9990 H/W	M1080 P
R0017 R	L5030 M	L7117 H	L8190 H	L9536 G	L9994 G	M1090 G
R0593 X	L5047 L	L7021 I	L8195 X	L9540 F	L9998 I	M1093 H
R0598 S	L5070 K	L7831 G	L8501 Y	L9546 E	M0008 K	M1058 I
R0615 T	L5090 J	L7833 E	L8508 W	L9550 T	M0016 J	M1101 J
R1090 T	L5100 I	L7811 F	L8512 U	L9558 C	M0325 L	M1110 F
R1111 V	L5116 H	L7818 F	L8515 V	L9564 D	M0330 M	M1116 E
R1115 U	L6019 G	L7856 G	L9022 T	L9569 A	M0340 W	M1119 D

AREA "R"	AREA "S"	AREA "T"	AREA "U"	AREA "V"	AREA "W"	AREA "X"
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Direction Encoding Table

	E	W	N	S
31 December	A	Y	Q	W
1 January	H	U	Z	O
2 January	J	R	W	D
3 January	G	T	S	M
4 January	I	Y	E	H
5 January	A	G	M	W
6 January	T	R	C	K

By command of Major General PRICHARD:

OFFICIAL:

WILLIAM R. TUCK,
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

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(3). Upon expiration of the emergency page the succeeding

(4) Page 4 will be distributed to unit Hq to replace Page 4

5. The authenticators tables listed in this item will be issued in

6. Station authentication will be made when the slightest doubt arises

5. Test elements to be authenticated upon will be three (3) letters,

6. This item will not be taken forward of the headquarters to which

By command of Major General FRICHARD:

JOHN, L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:

WILLIAM R. YUCK,
Lt. Col., G. S. C.,
Actg. A. C. of S., G-3.

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Item No. 15-16

Hq. Int. Aund. Div.
Sheet 2 of 7

Effective 311600A December, 1944

1. The authentication tables listed below will be used from 311900A Dec... to 070659A January, 1945 as indicated below. (Note in... order ... use.

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
		2	3	4	1	2	1	2	3	4	5	6	7	8	9	0	1	4	5	1	6	7	8	9	0	1	3	4
SATURDAY	ROW 2	3	4	5	6	7	3	9	0	9	8	7	6	4	3	2	1	4	3	2	6	7	4	3	5	1	3	
JANUARY 6	ROW 3	6	7	8	9	0	9	0	8	7	6	5	4	1	4	3	2	3	1	4	3	2	3	4	5	6	7	1	5
		A	Q	R	S	T	U	V	L	L	C	N	O	V	D	M	E	X	V	Y	G		Z	I	J	K	

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ROW 1	4	5	6	7	8	9	0	9	8	7	6	5	4	3	1	2	3	1	4	5	1	6	5	4	5	3
FRIDAY	ROW 2	6	7	8	9	8	7	1	6	5	4	3	2	1	3	4	2	5	3	6	4	1	4	5	6	5	4
JANUARY 5	ROW 3	1	4	3	2	1	3	2	1	4	3	1	4	3	4	5	6	7	8	9	0	1	4	5	6	7	8	9
		B	V	W	E	Z	T	A	U	X	Y	I	K	L	J	N	Q	M	O	P	D	Q	S	R	F	G	H

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ROW 1	1	3	4	5	1	6	7	1	8	9	0	1	8	7	6	5	4	3	1	2	3	4	5	4	3	5
THURSDAY	ROW 2	4	5	3	4	3	1	3	2	1	3	4	5	6	7	8	9	0	1	5	4	3	2	3	4	5	2	1
JANUARY 4	ROW 3	6	5	4	1	4	3	1	2	3	4	5	6	7	8	9	0	9	8	7	6	5	4	3	2	3	3	
		B	C	D	J	A	F	K	L	H	G	H	I	J	N	O	P	Q	R	S	T	Z	Y	U	W	X	V

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ROW 1	3	2	3	4	5	6	7	8	9	0	1	8	7	6	5	1	5	4	3	4	3	2	3	4	5	6
WEDNESDAY	ROW 2	1	5	1	4	0	1	9	1	5	8	1	4	3	2	1	9	5	1	4	5	1	0	4	5	6	1
JANUARY 3	ROW 3	5	1	4	3	2	3	4	5	6	7	8	9	0	1	8	9	0	9	8	7	6	5	4	3	2	4	
		P	Q	B	H	Z	D	I	U	C	J	N	Q	B	K	O	E	T	U	A	L	P	S	V	U	X	Y

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ROW 1	1	3	4	3	1	4	5	6	7	8	9	0	9	8	7	6	5	4	3	2	3	4	5	6	5	4
TUESDAY	ROW 2	6	1	7	0	9	0	1	6	7	8	9	0	1	9	0	0	8	9	7	1	6	5	4	3	2	3	1
JANUARY 2	ROW 3	7	8	9	0	9	8	7	6	5	4	3	2	3	4	5	4	3	2	3	4	5	6	7	8	9	0	
		J	F	Z	Y	G	A	H	X	U	V	M	O	P	Q	R	S	T	I	C	J	L	K	D	H	N	B

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ROW 1	5	4	3	1	2	3	4	1	5	6	7	1	6	8	5	6	1	4	5	3	5	1	2	4	3	5
MONDAY	ROW 2	1	3	2	1	3	4	5	4	3	2	3	2	3	4	5	1	5	6	7	8	9	0	9	8	7	6	
JANUARY 1	ROW 3	0	1	9	1	8	1	8	1	6	5	4	3	2	3	4	5	6	7	8	9	0	9	8	7	6	5	
		I	Y	H	Z	J	[illegible]			G	F	D	A	E	C	R	S	T	U	V	K	L	H	W	O	P	Q

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ROW 1	2	3	2	3	4	5	4	1	5	6	7	8	1	8	9	0	9	8	7	6	5	4	3	4	3	2
SUNDAY	ROW 2	1	4	3	4	5	4	1	5	6	5	4	3	4	1	3	2	3	4	5	6	1	7	6	7	8	9	
DECEMBER 31	ROW 3	3	4	5	6	7	8	9	0	9	8	1	7	6	5	4	1	3	2	3	4	5	1	4	5	4	1	
		E	F	G	H	P	H	N	O	Q	R	I	J	K	L	S	T	Y	U	V	W	X	Z	A	B	C	D

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WILLIAM H. STONE,
Lt. Col., C. E., Dep
Asstg. Ad Gn of Sec Gen.

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Item No. 2[illegible]

SIGNAL OPERATION INSTRUCTIONS
"M-209 KEYS"

Hq 1st Armd Div.
Sheet 1 of 4

Effective: 31[illegible] December, 1944.

208

DRUM BAR	LUG POSITION	KEY WHEEL PIN SETTINGS: Pins on letters listed below are to be placed to the right. 1 2 3 4 5 6
1	2-0	A A - - - -
2	3-0	B B - B B -
3	1-3	- C - C - -
4	1-0	D - D - - D
5	1-5	E - - E - E
6	1-5	- - - - - -
7	0-5	- - G - - G
8	0-5	- - H H H -
9	0-5	I I I I I -
10	5-6	- J J - - J
11	- -	- K - - K -
12	- -	- - L L - -
13	4-5	M M - M - M
14	0-4	- N N - - N
15	0-4	- - - - O -
16	0-4	- - P P P -
17	0-4	- Q Q - Q -
18	0-6	R - R R R
19	0-6	- S S S S
20	0-6	- T T -
21	0-6	U - - -
22	0-6	- - -
23	0-6	W - -
24	0-6	X -
25	0-6	Y -
26	0-6	Z
27		

Indicator: WE

26 Letter Check:
GZSYL QOKDK VWEUD KYGKS SHILN K

Effective: [illegible] January, 1945.

DRUM BAR	LUG POSITION	KEY WHEEL PIN SETTINGS: Pins on letters listed below are to be placed to the right. 1 2 3 4 5 6
1	0-4	- - - A A -
2	0-6	B - B - B B
3	2-6	- - - - C C
4	1-2	- D D D - D
5	1-2	E E - - - E
6	1-0	- - F F - F
7	1-0	- - G G G -
8	3-0	H H H H H -
9	3-0	I - - - I I
10	3-0	J - J - - -
11	3-0	K K K - - -
12	3-0	- L - L L L
13	3-0	M M - M - -
14	0-5	N N - - - -
15	0-5	O O O - - -
16	0-5	- P - - P -
17	0-5	- - - Q Q -
18	0-5	- R - - -
19	0-5	- S - S -
20	0-5	- T T -
21	0-5	U U U U
22	0-5	- - V
23	0-5	W X X
24	0-5	- -
25	0-5	Y Z
26	0-5	-
27		

Indicator: OP

26 Letter Check:
QKZCQ RKKYA QIGGQ AUGFX LFCRY G

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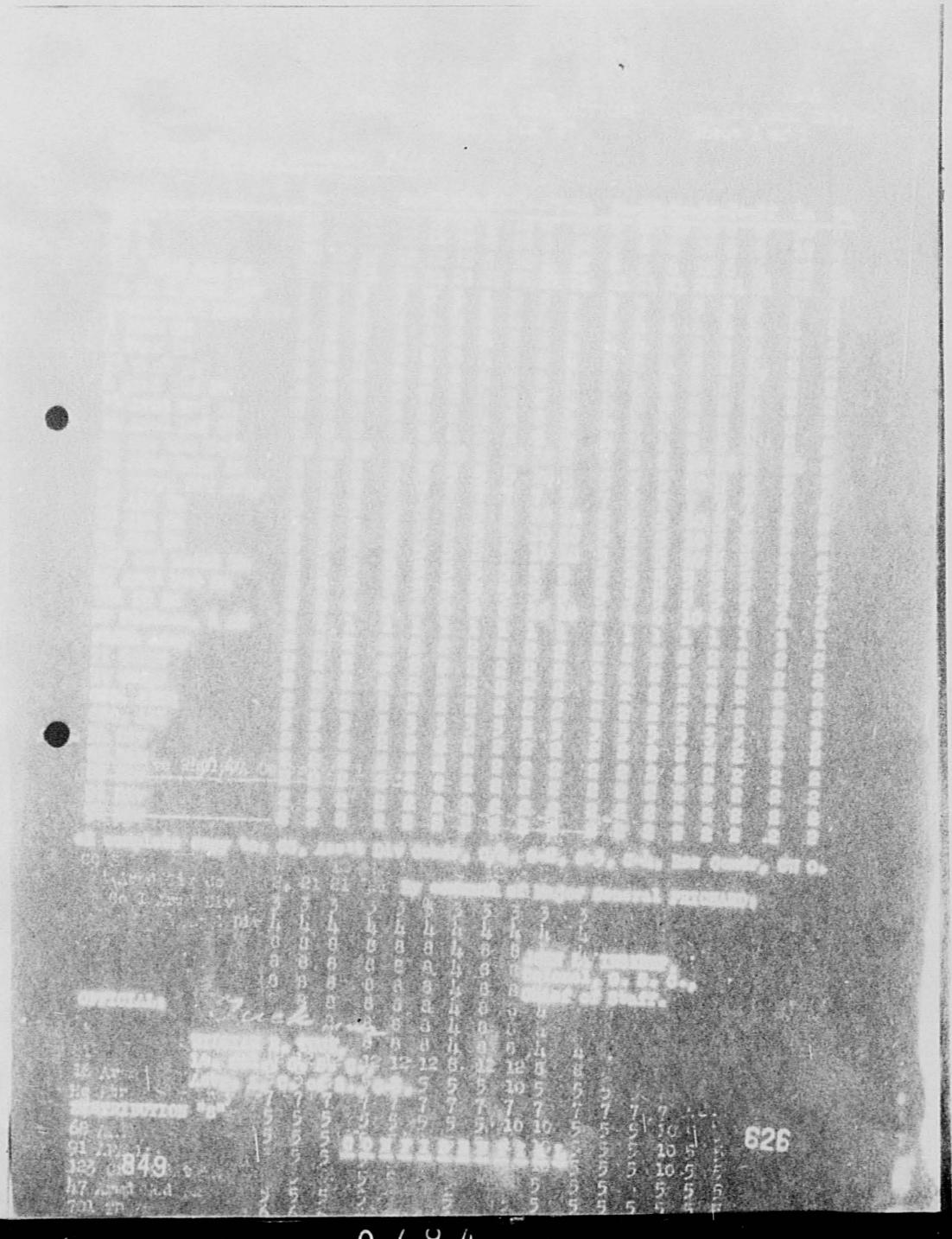
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HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U. S. Army

26 November, 1944.

SIGNAL INSTRUCTION)
NUMBER.....1-1) STANDARD CODE NAMES

1. a. General: The following code names will be employed in radio telephone (R/T) conversations and messages. They are intended to indicate the officer required to speak over the radio telephone and/or for whom or which branch a clear or AFCODE radio telephone is intended.

b. Standard Code Names:

BRITISH	U. S.	CODE NAMES
Commander	Commanding Officer or CG C of S or executive officer	SUNRAY SUNRAY MINOR
"G" Staff	G-3 or S-3	SEAGULL
"A"/"G" Staff	G-1 or S-1	MOLAR
"I" Staff	G-2 or S-2	ACORN
Signals Advisor	Signal or Communication Officer	PRONTO
RA	Artillery	SHELDRAKE
RE	Engineer	HOLDFAST
S & T	G-4 or S-4	PLAYTIME
REME	Ordnance	BLUEBELL
Med.	Surgeon	STARLIGHT
O. S.	Quartermaster	RICKSHAW

The second in command, or any other representative of an officer designated by a code name will be referred to as "Sunray Minor, Seagull Minor", etc.

2. The code will not change. Its security value lies in the fact that it conceals the type and size of a headquarters.

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL: C. A. Curtis
C. A. CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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MEANING	SIGNAL
purple.	
b. Indicate friendly troops with YELLOW smoke.	WHITE Very Light.
c. To acknowledge your signal	Plane wiggles wings.

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HEADQUARTERS 1st ARMORED DIVISION
APO 251, U. S. Army

8 August, 1944.

SIGNAL INSTRUCTION)
:
NUMBER.....19-2)

PIGEON COMMUNICATION

1. Pigeon communication service is furnished 1st Armored Division by a loft located in the vicinity of the Corps Signal Center. Messages received at the pigeon loft are relayed to the addressee through Corps message center by the most expeditious means available at the time.

2. Daily requirements of pigeons will be delivered to unit command posts by the Division Message Center. Requests for birds should be made to the Division Signal Officer 24 hours in advance of the time required. Requests should specify whether 1 - bird or 4 - bird containers are desired.

3. The security of pigeon communication is considered to be the same as for radio, and the same safeguards must be employed to prevent valuable information from falling into enemy hands.

a. All messages will be cryptographed unless the words "SEND IN CLEAR", over the signature of an officer, appear on the face of the message.

b. The message as transmitted will not show the names of persons or units, either by tactical designation, or telephone code name, in the heading, text or signature.

4. HEADQUARTERS CODE SIGNS will be used to denote the originator and addressee, as well as to identify units in the body of clear text messages, and MAP REFERENCE POINTS CODE SYSTEM will be used to disguise locations. Where circumstances permit, pertinent portions of the message may be enciphered by means of the AFCODE.

5. In order to expedite the delivery of pigeon messages to the addressee the heading of the message will be the word "PIGEON" used as a link sign, followed by CODE procedure (FM 24-10) to denote the addressee (s) and the originator. For example, a routine message from Headquarters, 81st Armored Reconnaissance Squadron, to Headquarters, 1st Armored Division, would carry the following heading:

PIGEON = A HND 121514A EPI GR 20--

Where: HND is HEADQUARTERS CODE SIGN OF Hq 81st Ron Sqdn and
EPI is HEADQUARTERS CODE SIGN OF Hq 1st Armd Div on 12th Marc

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6. Care and Feeding:

Pigeons should be protected from rain and wind. They should not be handled except when preparing them for release. They should not be fed anything except a grain that is furnished by the loft, and in no case should they be fed within 24 hours prior to release. In event that it becomes necessary to keep the birds longer than 24 hours they will be fed at the rate of one teaspoonfull of pigeon grain issued with birds twice a day. Water should be made available every 6 hours and 15 or 20 minutes before release.

7. Use:

Pigeons should not normally be kept for a longer period than one day or 24 hours. If no message is to be sent within that time the bird should be released with a message giving the reason and the time of release. In emergencies when a unit cannot obtain a resupply and urgently needs this form of communication pigeons may be held for two days or 48 hours, but under no circumstances will this period be exceeded.

8. Releasing:

Remove the bird from the basket head first. Hold firmly against the body while affixing the message. Be sure the message holder is free to move on the leg and is turned to the front. Select an open spot free of wires and other obstructions. Release the bird by opening the hand and giving a gentle upward toss at the same time. Birds should be released during daylight hours if possible.

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Lt. Col., G. S. C.,
Chief of Staff.

OFFICIAL: C. A. Curtis

C. A. CURTIS,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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Item No. 1b-2
Hq 1st Armd Div
Sheet 1 of 1

SIGNAL OPERATION INSTRUCTIONS
"LETTER OF INSTRUCTION"

209

Effective 2002 GCT, August 194[illegible]

1. The following Signal Operation Instructions are issued for use in this command and attached units effective with the date specified in each item. The index to this SOI (item No 1a) will be revised each time an item is changed so as to afford a physical check on the effective items.

2. Unit commanders will insure that all staff officers and communication personnel are instructed as to contents and proper use of these items of SOI. Copies of these instructions must be available to communication officers, message center personnel, staff officers and the chief operators on duty with each operating radio station. (For mobile radio stations likely to operate in advance of battalion command posts, only extracts will be carried).

3. a. Extreme care will be exercised to prevent capture or compromise of any SOI. Extracts from any SOI required for use by front line units will be memorized when practicable; e.g. pyrotechnic codes, code signs, frequencies, etc.

b. SOI's and separate items or written extracts thereof will not be taken forward of command posts of front line battalions except in the case of vehicular stations (see par 2 above).

c. When capture is imminent, all SOI's together with separate items extracts thereof will be destroyed, preferably by burning. Unit commanders wi insure that incendiary grenades, gasoline or some other readily combustible substance is carried near all classified documents to aid in rapid and complet destruction thereof. Unit commanders are further charged with the responsib- ility of training all personnel who handle SOI's in the quick and thorough destruction thereof.

d. All SOI's together with separate items or extracts thereof which have expired or have been superseded, will be destroyed by burning.

4. Loss or compromise of an SOI, separate items or extracts thereof will be reported by the fastest possible means to the division signal officer. Where an emergency item has been distributed, it will be placed into effect immediately.

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Colonel, G. S. C.
Chief of Staff.

OFFICIAL: C. A. Curtis

C. A. CURTIS,
Lt. Col., G. S. C.
A. C. of S., G-3.

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Item No. 3-5

209

SIGNAL OPERATION INSTRUCTIONS "FM CHANNEL ASSIGNMENTS" ENCODE SECTION

Hq 1st Armd Div. Sheet 1 of 2.

0800B August, 1944.

UNITS	CHANNELS
1st Armd Div Hq Gp	20
CC A	71
CC B	72
1st Tank Bn Comd Net	49
1st Tank Bn HqGp	17
Co A	32
Co B	35
Co C	38
Co D	14
4th Tank Bn Comd Net	51
4th Tank Bn Hq Gp	18
Co A	33
Co B	36
Co C	39
Co D	15
13th Tank Bn Comd Net	53
13th Tank Bn Hq Gp	13
Co A	34
Co B	37
Co C	40
Co D	16
6th Armd Inf Bn Comd Net	43
6th Armd Inf Bn Hq Gp	19
11th Armd Inf Bn Comd Net	45
11th Armd Inf Bn Hq Gp	29
14th Armd Inf Bn Comd Net	47
14th Armd Inf Bn Hq Gp	30
81st Cav. Ron Sqdn Hq Gp	31
Troop A	41
1st Platoon	0
2nd Platoon	4
3d Platoon	9
Troop B	44
1st Platoon	1
2d Platoon	5
3d Platoon	10
Troop C	46
1st Platoon	e
2nd Platoon	6
3d Platoon	11
Troop D	48
1st Platoon	3
2d Platoon	8
3d Platoon	12
Troop E	50
Troop F	52

UNITS	CHANNELS
1st AD Arty & Air CP	78
27th Armd FA Bn Fd Net	55
Btry A	61
Btry B	64
Btry C	67
68th Armd FA Bn FD Net	57
Btry A	62
Btry B	65
Btry C	68
91st Armd FA Bn FD Net	59
Btry A	63
Btry B	66
Btry C	69
1st AD Trains Hq Gp	7
123rd Ord. Maint Bn	23
47th Armd Med Bn	21
Assault Gun Plats, all Units	27
Mortar Platoons, all units	25
1st AD Inter-Comm Channel	74
Army Inter-Comm Channel	76
16th Armd Engr Bn Hq Gp	22
Co A	24
Co B	26
Co C	28
701st Tank Destroyer Bn Comd Net	42
Hon Co	79
Co A	70
Co B	73
Co C	77

840

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Item No. 3025

SIGNAL OPERATION INSTRUCTIONS
"FM CHANNEL ASSIGNMENTS"
DECOR SECTION

Hq 1st Armd Div.
Sheet 2 of 2.

Effective 0002B August, 1944.

CHANNELS	UNITS	CHANNELS	UNITS
0	1st Plat, Troop A, 81 Ron Sqdn	40	Co C, 13th Tank Bn
1	1st Plat, Troop B, 81 Ron Sqdn	41	Troop A, 81 Ron Sqdn
2	1st Plat, Troop C, 81 Ron Sqdn	42	Comd Net, 701st TD Bn
3	1st Plat, Troop D, 81 Ron Sqdn	43	Comd Net, 6th Armd Inf Bn
4	2d P lat, Troop A, 81 Ron Sqdn	44	Troop B, 81st Ron Sqdn
5	2d Plat, Troop B, 81 Ron Sqdn	45	Comd Net, 11th Armd Inf Bn
6	2d Plat, Troop C, 81 Ron Sqdn	46	Troop C, 81st Ron Sqdn
7	Hq Gp Division Trains	47	Comd Net, 14th Armd Inf Bn
8	2d Plat, Troop D, 81 Ron Sqdn	48	Troop D, 81st Ron Sqdn
9	3d Plat, Troop A, 81 Ron Sqdn	49	Comd Net, 1st Tank Bn
10	3d Plat, Troop B, 81 Ron Sqdn	50	Troop E, 81st Ron Sqdn
11	3d Plat, Troop C, 81 Ron Sqdn	51	Comd Net, 4th Tank Bn
12	3d Plat, Troop D, 81 Ron Sqdn	52	Troop F, 81st Ron Sqdn
13	Hq Group, 13th Tank Bn	53	Comd Net, 13th Tank Bn
14	Co D, 1st Tank Bn	54	
15	Co D, 4th Tank Bn	55	Fire Direction, 27th AFA Bn
16	Co D, 13th Tank Bn	56	
17	Hq Group, 1st Tank Bn	57	Fire Direction, 68th AFA Bn
18	Hq Group, 4th Tank Bn	58	
19	Hq Group, 6th Armd Inf Bn	59	Fire Direction, 91st AFA Bn
20	Hq Group, 1st Armd Division	60	
21	Hq Group, 47th Armd Med Bn	61	Btry A, 27th AFA Bn
22	Hq Group, 16th Armd Engr Bn	62	Btry A, 68th AFA Bn
23	Hq Group, 123rd Ord Maint Bn	63	Btry A, 91st AFA Bn
24	Co A, 16th Armd Engr Bn	64	Btry B, 27th AFA Bn
25	Mortar Platoons, all Units	65	Btry B, 68th AFA Bn
26	Co B, 16th Armd Engr Bn	66	Btry B, 91st AFA Bn
27	Assault Gun Platoons, all Units	67	Btry C, 27th AFA Bn
28	Co C, 16th Armd Engr Bn	68	Btry C, 68th AFA Bn
29	Hq Group, 11th Armd Inf Bn	69	Btry C, 91st AFA Bn
30	Hq Group, 14th Armd Inf Bn	70	Co A, 701st TD Bn
31	Hq Group, 81st Ron Sqdn	71	Hq Group CC A
32	Co A, 1st Tank Bn	72	Hq Group CC B
33	Co A, 4th Tank Bn	73	Co B, 701st TD Bn
34	Co A, 13th Tank Bn	74	1st AD Inter-communication chan
35	Co B, 1st Tank Bn	75	
36	Co B, 4th Tank Bn	76	Army Inter-communication channe
37	Co B, 13th Tank Bn	77	Co C, 701st TD Bn
38	Co C, 1st Tank Bn	78	Hq Btry & Air OP, 1 AD Arty
39	Co C, 4th Tank Bn	79	Ron Co, 701st TD Bn

By command of Major General PRICHARD:

JOHN L. INSKEEP,
Lt. Col., G. S. C.,
Chief of Staff.

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Item No. 2a-7
Hq 1st Armd Div
27 July, 1944

SIGNAL OPERATION INSTRUCTIONS
"DISTRIBUTION OF CRYPTOGRAPHIC SYSTEMS"

Effective: 0[illegible] August, 1944.

1. AFCODE will be issued down to and including all companies. Platoons which are detached from their present organizations for special missions may also be issued this code at the discretion of the unit commander.

2. Changing items of the SOI are distributed down to and including headquarters of battalions and separate companies, for a period not to exceed seven days. Items to be distributed to line companies will be held at battalion headquarters and each days items issued one day in advance of their effective date. Under exceptional circumstances such as a company operating separately, a supply of items not to exceed three days in advance may be issued to a company.

3. It will be noted that such items as M-209 Keys, Item No. 2d-( ); Headquarters Code Signs, Item No. 3d-( ); Radio Link Signs, Item No. 3e-( ) Authenticator Table, Item No. 2f-( ); are prepared in such a form that the appropriate portions may be cut out of the complete item and such portion issued directly to company headquarters in conformance with paragraph 2 above. Only minimum extracts of other SOI items such as Map Reference Points Code, Item No. 2h-( ); Radio Frequencies, Item No. 3b-( ) etc., will be issued below battalion headquarters. Maximum care will be exercised by all concerned that only those extracts or portions of items of SOI absolutely necessary to the efficient functioning of signal communications are issued below battalion or separate company headquarters.

By command of Major General PRICHARD:

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12 FEB 1945

HEADQUARTERS FIRST ARMORED DIVISION
APO 251, U. S. Army

31 July, 1944.

SIGNAL INSTRUCTION)
:
NUMBER.....9-2)

CRYPTOGRAPHIC SECURITY

1. Signal Instruction No. 9-1 dated 13 January 1944 is rescinded and the following substituted therefor.

2. a. All traffic handled by W/T radio will be enciphered unless there is a signature after the space designated by the words "Authorized to be sent in clear". Such messages when authorized to be sent in the clear will by the use of [illegible] GEOM SIGNS and STANDARD CODE NAMES as given in Signal Instruction #5 be worded in such a manner as to furnish the enemy with a minimum of information.

b. The normal cryptographic system for all W/T traffic in this division and all attached units is the converter M-209, with keys as assigned in Item 2d of the SOI. At battalion and lower units, AFCODE may be used to encipher messages.

3. a. The use of clear language on R/T will be avoided whenever possible. When it is necessary to use clear language on R/T, messages will be phrased in such manner that it will furnish the enemy with the least possible information. Telephone code names, names of organization, names or "nick" names of individuals will never be used.

b. Where no great amount of security is required and in giving locations in clear text messages such as ; CP locations and forward element locations, MAP REFERENCE POINTS CODE will be used. AFCODE WILL BE USED FOR TACTICAL [illegible] when a limited degree of security is desired. In other cases where maximum security is desired messages will be encoded by means of Converter M-209 but never will any two codes be mixed.

4. a. Continual care and alertness. Cryptographed traffic is read more because of carelessness and lack of thoroughness on the part of cryptographic personnel than because of any inherent weakness in the system employed. These failings manifest themselves in many ways. Their effects can best be minimized by a thorough and systematic check on every message before it leaves the code clerk, and by impressing on all personnel the fact that mistakes not only mean delay at the other end but endanger the security of the traffic. Lack of thoroughness is shown particularly in the tendency to take unauthorized short cuts. In some cases convenient but highly dangerous methods have become routine procedure, either with the approval or without the knowledge of the supervising officer.

(1) Stereotyped phraseology. Stereotyped phraseology is particularly dangerous in M-209-A traffic. The usual prohibition against stereotyped beginnings and endings apply to this traffic in full force, and in addition the following specific instructions, applying to M-209-A traffic only, are prescribed.

885

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(2) Padding. In the enciphorment of messages of fixed form or content, where stereotyped phraseology is extremely difficult to avoid, the code clerk will encipher from one to twelve random letters immediately before and after the message text. To insure a random choice of letters, turn the indicating disk at random without choosing the letters to be enciphered. This system loses much of its effectiveness if the number of letters to be enciphered is consistently selected from the higher range. Every number from one to twelve will be used equally often.

(3) Stereotyped phrases within messages. In the high-grade cipher systems now used by the U. S. Army, stereotyped phraseology is dangerous only when it occurs at predictable points, as at the beginning and ending of messages. In [illegible] traffic it is almost equally dangerous in the body of messages when it reaches a length of approximately thirty letters. (including spaces between words) [illegible] every effort must be made to prevent the habitual recurrence of phrases of this length, especially in messages which can readily be indentified as belonging to a particular type. For instance, if the enemy can, from outward appearances, identify a given message as a battle casualty report and knows from experience that it will contain the phrase "Battle Casualty report as of two two zero zero---" he may be able to find its place in the message and read the rest of the text. To avoid this danger, as many as practicable of the following measures will be adopted.

(4) Effort will be made to disguise the characteristic external appearance of messages. For instance, if Headquarters A regularly sends to Headquarters B a battle casualty report of approximately fifty groups about ØØØØZ and a ration strength report of about thirty groups at 1ØØØZ, the enemy will soon recognize the fact. If the length and time of transmission of those messages can be modified so as to make them indistinguishable from other traffic in the same channel, he will lose valuable clues. The time it takes to locate a given phrase known to occur varies directly with the number of messages that must be examined.

(5) The order of words will be varied. The time it takes to locate a given phrase in a message varies directly with the number of forms in which it may occur.

(6) Erratic spacing will be used. Phrases may be varied by using zero, one, or two [illegible] between words. Since solution is by letter-for-letter matching, this adds considerable to the difficulty, but is not in itself sufficient.

(7) Abbreviations will be used as frequently as possible. When a particular, long phrase is consistently required in a given channel, a selfevident abbreviation should be arranged, as BCR (not Baker Charlie Roger) for Battle casualty report. When this is not feasible, the use of slight, varied misspellings by the suppression of inessential letters is effective. Thus artillery may be written Atillery, Artillry, Artillry, etc. The principle is the same as in (6) above. However, only words which leave no doubt as to their original form will be so treated.

RESTRICTED 228 Page 2 of 4

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group.

(8) X's and Z's will never be enciphered to complete the final

(9) Converter M-209-A's should be checked regularly during their use for proper oiling, inking of pads and settings. After movement by vehicle or dropping and at regular intervals during the day, the twenty-six letter check should be made on all converters.

b. The following is a list of permanent stereotypes:

"Acknowledge"
"Advanced"
"Advise"
"Arrive"
"Attention"
"Authority"
"Cite"
Compass direction, e.g. "North","East" /etc/
Correspondence symbols, e.g. "SPSIC"
"Confirm"
"Depart"

Effective

"End"
"End of message"
"Enemy"
"Following"
"For"
"From"
"Information"

Names of months and dates, e.g. "six April"
Numbers, e.g., "one","two","Three" etc.
"Our".
"Package"
"Paraphrase"
"Paren"
"Period"
Phonetic alphabet components, e.g. "Able" "Baker" etc.
"Please"
"Quote"
Ranks & Grades, e.g. "Captain" "Private", etc.
"RE" used as first two letters of word e.g. "repeat", "retal", "reference", "reply", "requested".
"System(s)"
"Signed, (name _____)
"Stop"
"This" or "That"
Titles - "Commanding General", etc.
"Your"
"In reply"

c. Wherever it is necessary to encipher a message in more than one system, or when a message has been cryptographed in one system, and must be later cryptographed in another, the message must be carefully paraphrased. Paraphrasing is the application of all of the following processes.

(1) Change sequence of paragraphs.
(2) Change sequence of sentences within the paragraph.
(3) Shift position of subject, predicate and modifiers in the sentence.
(4) Change from active to passive voice or vice-versa.
(5) Substitute synonyms or equivalent expressions.

5. Distribution of cryptographic systems.

a. The cipher device M-209-A is issued down to include battalion and separate company headquarters. Keys for this device are issued to battalion & separate company headquarters for a period covering seven days. These keys will be held in battalion headquarters, and will be distributed so as to reach company headquarters one day in advance of each effective date.

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(8) X's and Z's will never be enciphered to complete the final group.

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b. The following is a list of permanent stereotypes:

"Acknowledge"
"Advance"
"Advise"
"Arrive"
"Attention"
"Authority"
"Cite"
Compass direction, eg. "North","East" /etc/
Correspondence symbols, e.g. "SPSIC"
"Confirm"
"Depart"

Effective

"End"
"End of message"
"Enemy"
"Following"
"For"
"From"
"Information"

Names of months and dates, e.g. "six April"
Numbers, e.g., "one","two","Three" etc.
"Our".
"Package"
"Paraphrase"
"Paren"
"Period"
Phonetic alphabet components, e.g. "Able" "Baker" etc.
"Please"
"Quote"
Ranks & Grades, e.g. "Captain" "Private", etc.
"RE" used as first two letters of word e.g. "réurad", "retal", "reference", "reply", "requested".
"System(s)"
"Signed, (name _____)
"Stop"
"This" or "That"
Titles - "Commanding General", etc.
"Your"
"In reply"

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b. AFCODE will be issued down to and including all company headquarters and in cases where platoons are detached or at some distance from their parent organization it may be issued to them at the discretion of the unit commander.

6. Destruction of Signal Material.

a. Expired items of Signal Operation Instructions will be destroyed by burning immediately upon expiration.

b. In case capture by the enemy is imminent, all available means will be utilized to destroy all communication documents and equipment as effectively as the circumstances permit. Documents, signal instructions, SOI's, etc. will be burned by soaking in gasoline or its equivalent and then igniting. Signal equipment such as radios, telephone switchboards, cryptographic devices, etc. should be destroyed by a thermite or similar grenade. Pin and lug on converter M-209-A will be disarranged prior to attempted destruction. If this is not possible, the equipment should be destroyed with an axe or its equivalent and ignited with gasoline.

c. Notify the Division Signal Officer immediately by the fastest possible means when an item of SOI, cipher key or other classified document is lost or otherwise believed to be compromised.

By command of Major General TRICHARD:

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12 FEB 1945

21 July, 1944

SUBJECT: INSTRUCTIONS FOR MAP REFERENCE POINTS CODE SYSTEM

1. Reference is made to Field Operation Instructions, 1st Armd

2. [illegible] methods by which locations c[illegible] ARCOM, [illegible] will be used to encode coordina[illegible]

3. [illegible] the location to be encoded is expressed as being a [illegible] reference point:

4. [illegible] (for [illegible]) the individual [illegible] of location in [illegible] reference points [illegible] distinguishing letter allowed to it [illegible] reference points in a given "GROUP" [illegible] by a different letter of the alphabet.

5. The distance is measured in terms of the number of tenths of kilometers horizontally and vertically from the chosen reference point to the location. A tenth of a kilometer is the distance which is expressed in the third and sixth figure of a six figure map reference. Therefore, one-tenth and sixth figure of a nine figure map reference, therefore, one-tenth of a kilometer would be expressed as [illegible] one kilometer as 1[illegible] and two kilometers as 1[illegible]. Thus 4.0 kilometers east and 5.0 kilometers north of the reference point [illegible] (or [illegible]) would be the map coordinate [illegible].

6. The direction is expressed by the four points of the compass (N, E, S, W) which are changed by means of a letter substitution code that is changed daily.

7. The encoded map reference must contain the following information which, for convenience in encoding and decoding, is sent in the following form:

AB C123 D456, where

A = The letter designating the area.
B = The letter designating the reference point itself.
C = The horizontal (3 or 7) direction of the location from the reference point, encoded by the Direction Encoding Table.
123 = The horizontal distance from reference point to the location.
D = The vertical (3 or 7) direction of the location from the reference point, encoded by the Direction Encoding Table.
456 = The vertical distance from reference point to the location.

902

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Page 1 of 3

655

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9. The following is a sample copy of a map coordinate code. It will be noted that the code letters for areas and reference points are used for the duration of the code, but that a new direction encoding table is used every day.

SAMPLE REFERENCE POINTS CODE



Point	Area Letter Code Letter
V	U
N	K
Q	G
A	W

Direction Encoding Table	E.	N.	W.	S.
Day 1	Z	U	T	P

Examples Using Sample Code

a. Map coordinate to be encoded on Day 1: J1003Ø0

Letter designating the area:	P
Reference Point Selected:	U
Horizontal direction encoded:	Z
Horizontal distance:	2ØØ
Vertical direction encoded:	P
Vertical distance:	1ØØ
Encoded coordinate: PUZ 2ØØ P1ØØ	

b. The same coordinate can be encoded by means of the other reference points with the following results:

PK ZØØ PØØ
PG UØØ ZØØ
PT UØØ PØØ

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9. In decoding, the first three numbers of an encoded reference are added to the first three numbers of the fixed reference point when the direction is east; subtracted when west. The second three numbers are added when the direction is north; subtracted when south.

10. Provisions are made for a complete weekly change of reference points and letters designating areas.

11. In case of compromise of all or any part of this code the Division Signal Officer will be notified by the most expeditious means.

By command of Major General PRICHARD:

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AFCODE INSTRUCTIONS
Effective ØØØB, 16 July, 1944.

SIGNAL INSTRUCTION)
NUMBER.....4-3)

All CODEX devices will be turned in to the Division Signal Officer without delay. All instructions pertaining to the use of the CODEX device are rescinded.

1. GENERAL:

AFCODE is a two part radio telephone (R/T) code prepared and distributed to all tactical units in this theater. Each Army, Corps and Division will use a separate edition. During combat each edition will normally be used for a period of three days. While this Division is in a rest area, or not engaged in combat, the editions will be changed less frequently. The effective dates for each edition of this code will be included in item number 2e-( ), Signal Operation Instructions, this headquarters.

2. DESCRIPTION:

The 'Encode' and 'Decode' sections are each printed on a single sheet with four plain text columns and the corresponding code columns on each page. The vocabulary consists of 421 meanings (with variants for the most common ones), two alphabets (each containing variants for the highest frequency words) and six sets of numerals from Ø to 9. To facilitate the use of this code one alphabet and three sets of numerals are printed on each side of the Encode sheet. These are all in the same columns as the vocabulary, so that there is no need for the "spell on", or "spell off" process required in some radio-telephone codes. On the 'Encode' sheets the word to be encoded are arranged alphabetically and on the 'Decode' sheet the code groups are arranged alphabetically.

3. DISTRIBUTION:

This code will be made available to all users of radio-telephone. All precautions to prevent compromise must be exercised by units, and if compromise of this code is at all imminent, it should be destroyed. Additional copies of the current edition to replace those destroyed are available at Division Message Center.

4. METHOD OF USE:

a. AFCODE is not intended for ad lib conversations. The calling party will write out in code the message he wishes to send before making his call. The called party will then write out in code the answer he wishes to make before replying. The phonetic alphabet will be used in the actual voice transmission.

b. A mixture of plain and code language is not permitted, since such a mixture inevitably provides clues as to the meanings of the code groups.

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874 Sheet 1 of 2 646

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e. As few words as possible will be spelled out. However, when spelling is employed, alternate code words will be used for double letters.

(1) Locations as part of message to be encoded in AFCODE should be given by map coordinates and not by spelled out place names. Locations or map coordinates included in messages to be encoded in AFCODE will not be encoded or encyphered by any other system. MAP REFERENCE POINTS CODE will not be used to encode locations in messages encoded in AFCODE.

(2) When a desired word does not appear in the vocabulary, every effort should be made to find a synonymous expression, rather than spelling out the missing word. The vocabulary is sufficient to make most tactical messages possible with little necessity for spelling; but it does not provide many ways for saying the same thing. A thorough knowledge of the contents of the code and practice in its use will pay dividends in rapid and satisfactory communication.

d. Variants are provided for letters, and some high frequency words. It is essential that all variants be used with approximately equal frequency.

e. Words are given in their simple form. If it is clear from the context that a plural, past, or participle meaning is intended, the simple form will be used. When doubt might exist, the code group for the simple form will be followed by the group of S, ING, ED, or whatever is needed.

f. The edition number will be used as an indicator only when unusual circumstances make it necessary, and not as a routine procedure.

5. SECURITY:

a. Any short code such as AFCODE can be broken by enemy analysts in a few days if sufficient traffic is available. However, the fact that a number of editions will be in use simultaneously by different major units, i.e., divisions (and each edition for only three days) will make the problem of deciphering by the enemy very difficult. The fact that messages encoded by different editions will have the same external appearance adds another serious difficulty for the enemy. It is therefore believed that AFCODE is sufficiently secure for its authorized use as a radio-telephone code. It is not authorized for use on C/T above headquarters of battalions except in genuine emergencies and where no more secure means of encipherment is available.

b. In case of compromise of this code, notify the Division Signal Officer by the most expeditious means.

By command of Major General HARMON:

JOHN L. INSKEEP,
Lt. Col., G. S. C.,
Chief of Staff.

OFFICIAL: E. A. Russell Jr.
E. A. RUSSELL, JR.,
Lt. Col., G. S. C.,
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HEADQUARTERS 1ST ARMORED DIVISION
APO 251, U. S. Army

12 FEB 1945

16 July, 1944.

SIGNAL INSTRUCTION)
NUMBER.....5-3) INSTRUCTIONS FOR USE OF CONVERTER M-209

1. In order that holders of the convertor M-209 may communicate with another, it is obviously necessary that the cryptographic mechanisms of their devices be set to identical initial positions and that these mechanisms progress in an absolutely identical manner from those initial positions. This is accomplished by setting the elements of the cryptographic mechanism to definite positions and adjustments according to a cipher key applicable to a set of keying elements.

2. Keying elements of the M-209 are Three in Number:

a. PINS - Each of the six key wheels showing through the slots at the front of the machine contains a number of pegs or pins just inside the rim. Counting from the left, the first wheel has 26 pins, each designated by a separate letter of the alphabet; the second has 25 pins; etc. The missing letters are shown below:

Wheel Number	1	2	3	4	5	6
Number of pins	26	25	23	21	19	17
Missing Letters		W	W Y Z	V W X Y Z	T U V W X Y Z	R S T U V W X Y Z

A pin is referred to by the letter assigned to that point on the wheel. The pins may be set individually (1) to the right, (effect position) or (2) to the left, (ineffective position). Each wheel is moved in the encipherment of a letter of a message, allowing those pins to operate six small levers or guide arms, located under and to the rear of the key wheels. Pin settings are changed daily according to cipher key lists issued as item 2d-() of the SOI, this headquarters. Hereafter, only the pins in the effect position (to the right) will be shown in this item. The letters appearing under the six column will represent the pins that are active on the respective key wheels. The inactive pins are to the left.

b. DRUM BAR LUGS - In the top rear of the device is a cage-like wheel, called the drum, which acts as a cog wheel, but the cogs of which are movable so that the wheel may have a varying effect from one revolution to another. There are 27 of these cogs, known as drum bars, and each bar contains two projecting tabs or lugs. To seat these lugs, each bar has six active positions, number d from 1 to 6, and two inactive positions, both numbered Ø.

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The bar itself is pushed to the effective position when a guide arm makes contact with one of the active lugs on that bar. Thus, for encipherment of one letter of a message there might be 7 bars pushed to the left to turn the print wheel 7 spaces, while the remaining 2Ø bars have no effect at all; for the next letter, there might be no bars in effective positions, etc. The lug set-up is changed daily along with the change of pins, in accordance with item 2d-() in the SOI. Hereafter, the lug positions for each cipher key list in this item will be indicated by showing opposite each numbered drum bar the two numbered positions on which the lugs are to be placed.

c. Initial key wheel readings - In order to decipher a message enciphered on the M-209, the receiving code clerk must know the initial starting points of the key wheels as well as the set-up of pins and lugs. Starting points are designated by the letters showing at the bench mark before encipherment of the first letter of the message. This initial key wheels reading for a message must be sent along with the cipher message, but must be disguised for security purposes. The procedure for accomplishing this is set forth in paragraph 4 below.

3. After the convertor has been set up according to the cipher key list issued for the day, with especial care taken to see that all drum bar lugs are properly seated and in the correct positions, a 26 letter check must always be made.

a. This 26 letter check is accomplished by setting the letter counter at ØØØØ and the key wheels at AAAAAA. 26 A's are then enciphered and the results checked with the 26 letter check accompanying the cipher key list.

b. This check will show all errors in the set-up of the particular machine except in the case of a lug set-up where in all the lugs set in one numbered position (except Ø) of the drum are duplicated by the other lug of the same drum bars set in other numbered position (except Ø). For example, bars 13, 14, and 15 might each have a lug set in position 2 (this being the only use of position 2 in the setting 0, while bars 13 and 14 also have lugs in position 1 and bar 15 has its other lug in position 6. In this case, the results obtained from enciphering 26 A's might agree with the 26 letter check given with the cipher key list, and still the key wheel corresponding in numbered to that particular position of the drum (in the above example, wheel 2 could be incorrectly set up). A special note of warning that the key wheel corresponding to that drum position must be checked thoroughly.

4. The following procedure will govern the encipherment of all messages on the M-209 and will be observed exactly, without short-cuts or special variations in any unit.

a. Set the letter counter at zero.

b. Set encipher-decipher knob at position "C", the enciphering position.

c. Set up a random alignment of the six key wheels by turning the individual wheels at random. Never use an alignment already found on the machine from previous use, an actual or phonetic word (unless it occurs by pure chance), or any systematically selected group of letters. The random selection must be made mechanically, not mentally.

649

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Write down the letters so chosen for future use as the external message indicator. Assume that this is ORDURE".

d. Select a letter of the alphabet by turning the letter-enciphering wheel at random and taking the letter opposite the bench mark where the wheel has stopped. Encipher this letter twelve times, and write it down for future use as the system indicator. Assume it to be "A".

e. Return the letter counter to zero.

f. From the twelve cipher resultants obtained in step "D" the first six letters that can be used will be internal message indicator. (Some letters may not be usable, since five of the six key wheels do not contain complete alphabets. If a letter cannot be used for this reason, cross it out and use the next letter, and so on. In the rare cases when six usable letters cannot be obtained from the twelve cipher resultants, the deficiency will be corrected by enciphering some other letter of the alphabet and then repeating the process. Suppose the twelve resultants to be "STYLX ACDDH KJ". The internal message indicator would be as follows:

First Wheel (Extreme left)	- "S"
Second Wheel	- "T"
Third Wheel	- "L" (Since "Y" is not included on this wheel, the next letter is used)
Fourth Wheel	- "A" (Since "X" is not included on this wheel, the next letter is used)
Fifth Wheel	- "C"
Sixth Wheel	- "B"

Thus, the first six usable letters, "STLACB"), will make up the internal message indicator.

g. Align the six wheels according to the letters obtained in step F ("STLACB"). This alignment will be the initial key wheel reading described in sub-paragraph 2e above. Encipher the message, using the letter "Z" to space the clear text words. (Since "Z" is not printed when the convertor is set on "Decipher" "X" should be enciphered in substitution for the clear-text letter "Z" for purposes of clarity, as in "XOME" for "ZONE"). To obtain mechanically the group count required for transmission with all messages enciphered on the M-209, take the number registered on the letter counter at the completion of enciphering, increase it to the figure ending in 5 or Ø, divide this by 5, and add 4 to the quotient. The final number will be the group count of the cipher message, representing the cipher text plus the four indicator groups described in paragraph 5 following, and will provide a mechanical check against the copy of the cipher text handed in for transmission.

h. Burn all work sheets used in enciphering the message.

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5. The cipher version of every message enciphered by means of the M-209 will have a system indicator (the letter selected at random and enciphered 12 times in step 4d above) and an external message indicator (the six letters which were chosen at random in step 4e above). These indicators will appear at the beginning and end of each message in the following manner:

AA	ORM URE	AA	-----	AA	ORM URE	AA
(1)	(2)	(1)	(3)	(1)	(2)	(1)

(1) System indicator (the selected letter "A" repeated in the above manner indicates the use of the convertor M-209).

(2) External message indicator.

(3) Cipher text of the message.

The above procedure will be followed for all communication within this division. For communication with other units outside the division where it is necessary to identify a specific cipher key the appropriate di-graph as indicated with each M-209 setting may be used at the end of the second and last groups in the following manner:

AA	ORM URE	BS	------	AA	ORM URE	BS
(1)	(2)	(4)	(3)	(1)	(2)	(4)

(1) System Indicator.

(2) External message indicator.

(3) Cipher text of message.

(4) Di-graph indicator for identifying key used in initial alignment of device.

6. To decipher a message, the following steps will be taken:

a. Note cipher key list indicator for determination of pin and lug setting used for the message. If necessary, set up convertor M-209 with that list of keying elements, and make 26 letter check:

b. Set the letter counter at zero.

c. Set encipher-decipher knob at "C".

d. Align the key wheels in accordance with the external message indicator.

e. Encipher twelve times the letter given as the system indicator.

f. Set encipher-decipher knob at position "D", the deciphering position.

g. Return the letter counter at zero.

h. From the twelve cipher resultants, select the internal message indicator as described in sub-paragraph 4f above.

879

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i. Align the six wheels according to the letters obtained in step h and decipher the message.

j. Burn all work strips used in deciphering the message.

7. a. M-209 cipher messages will not exceed 100 groups (500 letters) enciphered from one indicator. Messages longer than this will be broken into parts, each containing 100 groups or less. Each part must have selected for it new system and external indicators, and be treated as an individual message as far as the encipherment is concerned. Each part will be appropriately labeled (in the clear) at the beginning and at the end of the enciphered text: "PART ONE OF TWO PARTS"; "END OF PART ONE", "PART TWO OF TWO PARTS"; etc.

b. Erratic spacing will be used in all messages enciphered by the M-209, Zero, One, or Two spaces will be used between words as a variant for the normal one space. This irregular spacing will be employed throughout the message and particularly within stereotyped phraseology. For example: "CONCERNING-OUR-REQUEST-FOR-ADDITIONAL-XX-FROM-C-G-ONE-ARMORED-DIV-TO-CG-FIVE-ARMY-XX-EQUIPMENT--THE-FOLLOWING--INFORMATION--IS-SUBMITTED." Hyphens indicate number of spaces between words.

c. In the encipherment of all messages by means of the converter M-209, the code clerk will encipher from one to twelve random letters immediately before and after the message text. To insure a random choice of letters turn the indicator disk at random without choosing the letters to be enciphered. In padding at the end of the message a sufficient number of random letters will be enciphered, in addition to the pad, to complete the final group. X's, either enciphered or 'in the clear', will not be used to complete the final group. Padding will be separated from the message text by one or two spaces.

d. X's will be used to set off internal addressees in preference to the use of the terms "BRACKETS", or "PAREN". Therefore it will be necessary that two (2) X's be enciphered immediately before and after the internal addressees.

e. The spelled-out date of encipherment, which immediately precedes the message text, will not be used with M-209 messages except when there is a possibility that the addressee will be in doubt as to which day's key was used or when the date of encipherment differs from the date-time group.

8. Jarring or dropping of machines: In cases where machines have been dropped or jarred in movement, the twenty-six letter check should be run before machines are used again.

9. All personnel having to work with the converter M-209 will become thoroughly familiar with these instructions and will follow them exactly. In addition, all using personnel will be prepared to operate the M-209 without paper as covered in sub-paragraph 3d, of TM 11-380 (Converter M-209).

By command of Major General HARMON:

JOHN R. HEBERT,
Lt. Col., G. S. C.,
Chief of Staff.

OFFICIAL:

E. A. RUSSELL, JR.,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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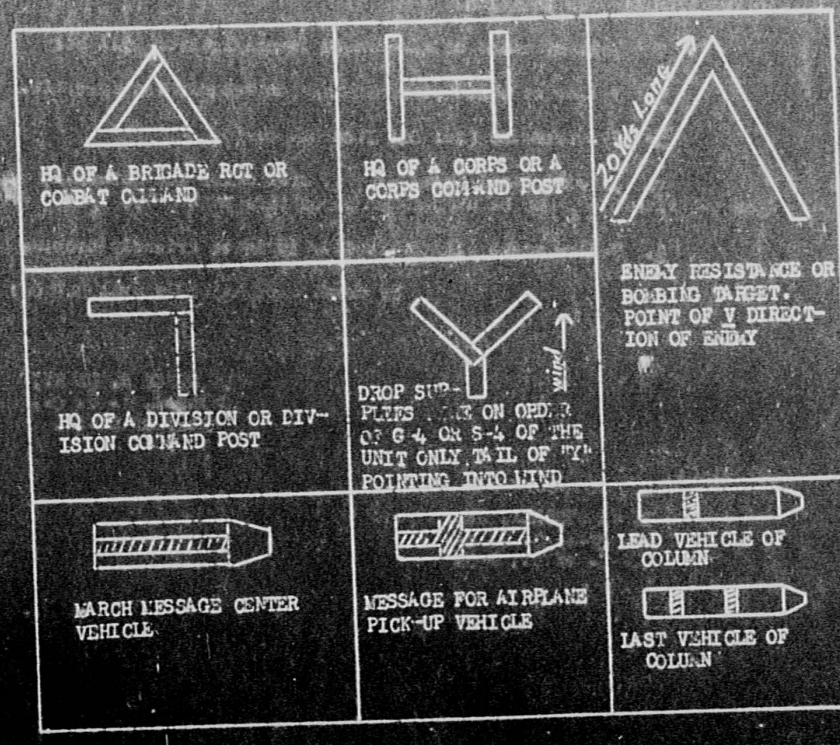
Item No. 2c-2

SIGNAL OPERATION INSTRUCTIONS
"AIR GROUND RECOGNITION"

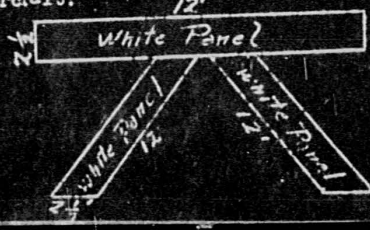
Hq 1st Armd Div.
Sheet 1 of 2

Effective 29th, March 1944.

1. This item will not be taken forward of the headquarters to which issued.



2. Each front line company will be prepared to display the following ground strip signal not more than 600 yards from the front lines within fifteen minutes after receipt of orders, so that the front lines can be identified by allied aircraft:



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Item No. 2c-2

ANNEX OPERATION INSTRUCTIONS
"AIR GROUND IDENTIFICATION"

Hq 1st Armd Div.
Sheet 2 of 2

effective 0900A, March 1944.

Each unit while in combat will notify this headquarters of the location by coordinates of each company position where this ground identification signal may be displayed if ordered and will keep this headquarters informed of any change in location of such positions.

a. The primary means of air-ground identification will be:

b. Yellow or white cloth markings on vehicle and aircraft.

c. Pyrotechnics (See SOI Item No. 2b-()

d. Special panel arrangements, size color and material, depending upon the situation, may be used as shown on this page only.

e. [illegible] will habitually indicate friendly troops.

By command of Major General HARMON:

LAWRENCE R. DEWEY,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:

E. A. RUSSELL, JR.,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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15 December 1943

HEADQUARTERS FIRST ARMORED DIVISION
APO 251, c/o Postmaster, N. Y., N. Y.

SPECIAL INSTRUCTION)
NUMBER. . . . . 3)

POWER RATINGS OF RADIO SETS

1. GENERAL
All radio sets have a power rating, usually given in watts. The following wattage ratings are given to the A/ sets which maybe used in this division.

TYPE RADIO	POWER IN WATTS
SCR 299, Full Power, Flat top antenna	400 watts
SCR 299, Low Power, Rod antenna	75 watts
SCR 193, Full Power, Flat top antenna	75 watts
SCR 188	75 watts
SCR 177	25 watts
SCR 193, Rod antenna	25 watts
SCR 188, Rod antenna	25 watts
SCR 177, Rod antenna	25 watts
SCR 284, Flat top antenna	25 watts
SCR 543	25 watts
SCR 245	

2. FREQUENCIES
Frequencies for use in the nets of this division are and will be given a definite maxium wattage rating. No radio will be operated on any net with a higher wattage output than allowed by the S O I.

By command of Major General HARMON:

LAWRENCE R. DEWEY,
Colonel, G. S. C.,
Chief of Staff.

OFFICIAL:
E. A. RUSSELL, Jr.,
Lt. Col., G. S. C.,
A. C. of S., G-3.

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S. O. I.
Hq. 34TH. DIVISION.

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140

ITEM #1A-89

SIGNAL OPERATION INSTRUCTIONS
"Index"

HQ 34th DIVISION
27 December 1944

Page 1 of 1 page.

Effective: 0100A, 31 December 1944.

Destroy : Item #1A-88, 0100A, 31 December 1944.

TITLE OF ITEM	SERIAL	REMARKS
1. General:		
a. Index	1A-89	
b. Letter of Instruction	1B-2	
c. Distribution 'S'	1C-14	
2. Codes and Ciphers:		
a. Distribution of Systems	2A-7	
b.		No Item in Effect
c. Map Reference Points Code	2C-79	
d. Pyrotechnic and Smoke Code	2D-8	
e. Air-Ground Recognition Signals & Panel Code	2E-6	
f. Afcode	2F-78	
g. M-209 Keys	2G-73	
h. Authentication System	2H-74	
3. Radio Communication:		
a. Radio Frequency Assignments	3A-31	Effective 0100A, 1 January 1945.
b. Link Signs	3B-72	
c. Headquarters Call Signs	3C-72	
d.		No Item in Effect
4. Wire Communication:		
a. Telephone Code Names and Directory	4A-12	
b. Wire Line Tagging	4B-3	
5. Miscellaneous:		

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139

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SIGNAL OPERATION INSTRUCTIONS
"Afcode"

ITEM #2F-78

HQ 34th DIVISION
27 December 1944

Page 1 of 1 page.

Effective: 0100A, 31 December 1944.

Destroy : Item #2F-77, 0100A, 31 December 1944.

1. AFCODE will be operated as prescribed in Amendment #1 to Paragraph #2F of Signal Instruction Number 2.

2. AFCODE EDITION NUMBER AND EFFECTIVE DATE:

UPON NOTIFICATION (Reserve)	#691
0100A, 31 December to 0059A, 1 January	#2147
0100A, 1 January to 0059A, 4 January	#2148
0100A, 4 January to 0059A, 7 January	#2157

3. Each edition will be destroyed not later than 24 hours after it has been replaced by a new edition.

4. Signal Officer, 34th Infantry Division, will be notified by the fastest possible means should any edition of AFCODE be compromised, during the period in which it is in effect.

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SIGNAL OPERATION INSTRUCTIONS

"Authentication System"

ITEM #2H-74

Page 1 of 1 page.

HQ 34th DIVISION

Effective: 0100A, 31 December 1944.

Destroy : Item #2H-73, 0100A, 31 December 1944.

1. This Authentication System will be used as prescribed in Signal Instruction Number 2.

2. The Messenger Challenge for each day appears to the right of the daily tables.

3. The tables are effective from 0100A hours, for 24 hour period on the day indicated. (Note inverse order of days)

		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	MSGR
January 6	Row 1	3 0 3 5 2 2 0 3 4 1 5 8 7 7 9 4 3 4 5 0 1 2 6 5 2 5	CHALLENGE
	Row 2	3 3 6 9 0 9 8 1 6 6 2 1 8 6 9 8 6 7 4 4 1 1 7 4 8 7	ATI
	Row 3	0 7 5 9 3 3 4 9 4 4 9 7 7 7 6 8 8 5 1 5 6 6 1 8 3 0	
		D F S M W Z H P G A U V C I X N L K T Y J R O Q B E	
		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
January 5	Row 1	3 9 8 1 1 2 1 2 0 1 0 5 4 3 2 2 3 3 5 2 5 8 2 6 8 4	
	Row 2	7 3 9 5 7 0 9 6 7 6 4 1 2 0 1 6 5 1 5 2 8 5 8 3 4 3	CLH
	Row 3	3 0 5 3 2 5 4 6 2 3 9 3 2 2 4 5 7 8 7 6 0 1 6 4 8 9	
		D Q Y T K F V U A Z O R J L E B W M S G N X I C P H	
		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
January 4	Row 1	8 7 9 6 8 6 7 7 7 1 1 9 4 4 0 9 0 9 0 4 0 6 4 4 5 2	
	Row 2	9 1 5 1 3 7 9 3 6 7 8 7 5 0 1 3 4 4 6 3 8 5 8 2 8 5	DXF
	Row 3	1 5 0 2 6 1 2 7 8 3 9 6 7 6 9 7 8 4 2 2 3 0 0 9 5 8	
		Z S M W A L E O P J R G V H U K T Y Q D C I X B F N	
		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
January 3	Row 1	3 6 3 3 8 7 2 1 0 1 7 8 7 5 6 9 7 6 9 2 5 4 4 6 1 5	
	Row 2	1 2 8 0 4 4 2 2 3 9 7 9 0 8 1 7 5 4 4 9 1 1 6 2 0 6	CUW
	Row 3	3 7 6 1 0 8 3 3 6 8 7 6 9 3 4 1 2 7 8 4 5 2 9 0 2 9	
		Q P K I F C U H O E W B X T L G R J Z M S Y N D A V	
		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
January 2	Row 1	9 2 1 7 3 6 0 6 4 3 2 1 0 4 9 1 1 5 3 4 5 2 4 8 0 8	
	Row 2	2 6 7 9 7 5 5 9 8 2 0 8 4 4 9 6 2 5 7 1 3 0 6 3 5 4	EJZ
	Row 3	3 3 5 6 3 7 2 2 1 1 9 8 9 0 1 4 7 4 0 1 6 3 1 6 7 5	
		U C E A S M Z J R G X B W F Y P O I H V L T K Q D N	
		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
January 1	Row 1	5 2 4 8 0 7 7 8 2 0 6 2 8 1 1 4 0 8 9 2 0 0 3 1 7 7 6	
	Row 2	3 5 2 8 6 2 6 7 7 9 9 8 9 6 2 1 4 5 8 3 3 0 4 6 7 2	XVM
	Row 3	9 1 0 2 8 9 3 1 9 1 2 6 6 1 3 6 4 5 3 5 4 4 5 4 8 5	
		P I F W B S A N D E C J Z K G Y O R L U Q T K H V M	
		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
December 31	Row 1	5 3 6 1 0 4 7 3 1 5 3 6 4 7 9 5 3 1 9 0 5 4 8 2 1 4	
	Row 2	3 8 7 6 2 3 0 0 0 4 7 1 1 5 6 4 6 8 9 9 7 7 6 2 9 4	BSG
	Row 3	6 4 8 2 3 2 7 3 0 1 2 0 9 2 2 8 5 6 7 9 1 5 5 9 0 2	
		C F Y O V X E J B H P M Z W U L R Q I G T A S B M W	

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C-O-N-F-I-D-E-N-T-I-A-L ITEM #34-31

SIGNAL OPERATION INSTRUCTIONS

"Radio Frequency Assignments" Continued

12. CHANNELS FOR SCR-508-510-528:

34th RECONNAISSANCE TROOP 34 - 42 - 47 - 51

13. CHANNELS FOR SCR-536:

All Infantry Regiments will use frequencies in sets supplied in accordance with Signal Instruction Number 3.

14. CHANNELS FOR SCR-300:

133rd INFANTRY REGIMENT	5 - 10 - 33 - 40
135th INFANTRY REGIMENT	8 - 17 - 25 - 32
168th INFANTRY REGIMENT	2 - 20 - 31 - 39

All AT Companies will use Channel 27.

15. All sets will be operated at the minimum power input for satisfactory communication. To provide minimum interference SCR-300 will be used with the short antenna when this can be done without affecting operation. Any case of interference must be reported to the Division Signal Officer, who will take action necessary to remedy the trouble.

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C-O-M-P-I-D-E-N-T-I-A-L
SIGNAL OPERATION INSTRUCTIONS
"Iron Mike"

ITEM #3B-71

HQ 34th DIVISION
28 December 1944

Page 1 of 1 pages.

Effective: 0100, 31 December 1944.

Destroy: Item #3B-71, 0100, 31 December 1944

Designation	Frequency 1	2	3	4	5	6
34th Div Rear Link #1	YUW	SBR	BMT	WLD	YCS	SGH	WCB
34th Div Rear Link #2	YCU	ZKD	CSB	GZH	IHE	XCT	MAS
34th Div Lateral Link	VAT	BCL	PAM	JWC	ORK	BWD	NFA
34th Div Arty Link to Div	BXT	KBL	YSC	FWC	SGB	MLD	CLM
34th Div Arty Link to Corps Arty	BXV	XBM	FDT	MIV	ZPC	XUD	MPH
34th Div Arty Link to Corps FCP	DLE	FML	TCK	CGG	DHK	WDQ	NWD
34th Div Arty Reserve #1	BTV	ZKD	BVN	AJE	SHN	ONK	CJC
34th Div Arty Reserve #2	ZFM	NAR	AED	VJV	SJB	YCF	WSQ
34th Div Arty Reserve #3	MUA	HBM	KFU	IXY	UUY	ZEX	TCL
34th Div Arty Reserve #4	YNS	CHM	VAS	DHK	FQV	[illegible]	SSQ
34th Div Arty Reserve #5	VLT	HCI	DXN	MWP	VTS	XYS	YLR
125th Fa Bn Link to Div Arty	GDB	AKR	NBH	CJS	LMJ	MKO	BAJ
151st Fa Bn Link to Div Arty	WAK	DQF	CAG	PZR	WGT	DQJ	DFN
175th Fa Bn Link to Div Arty	XZO	UNO	DVD	BRC	IAC	MFR	XKQ
189th Fa Bn Link to Div Arty	SIN	FWK	YVI	MJU	IOT	NIX	AFV
133rd Inf Regt Link to Div	IPE	JZH	DVL	LKS	ACK	PVV	CJP
135th Inf Regt Link to Div	FNU	VHI	NXW	LFK	WGB	UCW	HIT
168th Inf Regt Link to Div	RPM	MJC	SAL	HNK	IKZ	NKD	YLK
Div Liaison Net (CG Set)	EHG	GDO	PZG	BZN	OSG	OZS	OAX
Div Liaison Net (Utility #1)	ICD	ETP	JTJ	VEO	HPQ	XCE	VJS
Div Liaison Net (Utility #2)	PUC	ALN	GCC	GJG	TLJ	GHU	OMY
Reserve #1	ISF	VSV	MFF	IET	VPL	RCG	WWX
Reserve #2	TTE	OPV	RCK	ZYG	ACN	AJX	BKB
Reserve #3	KKS	CZM	SBA	ITN	GXP	NPE	DOE
Reserve #4	NHN	SJQ	EXA	AJD	YFV	KNU	LQE
Reserve #5	VFF	WLN	KHD	LOF	BID	KSM	UBW
Reserve #6	DGU	RUT	IDI	GVY	KDN	EJO	CKV
Reserve #7	YYC	XCK	TLS	RYY	FOI	AVQ	TUF
Reserve #8	SHJ	LVR	UWG	ZVV	MGP	SJT	SKY
Reserve #9	KWJ	OJR	CEX	SFG	AAG	RJR	OXW
Reserve #10	XJP	TVG	YHJ	VHC	YLA	ZOW	XVG
Reserve #11	KBY	UBB	DWK	JOT	NKG	DTC	DOW
757th Tank Bn Rear Link	VXR	STC	ZDR	BXW	GBP	EQZ	JRT
804th TD Bn Rear Link	XOC	LWR	TDF	MYY	JOI	ZCD	KCF

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SIGNAL OPERATION INSTRUCTIONS
"Headquarters Call Signs"

ITEM #3C-72

HQ 34th DIVISION
28 December 1944

Page 1 of 2 pages.

Effective: 0100h, 31 December 1944.

Destroy: Item #3C-71, 0100h, 31 December 1944.

	December 31	1	2	3	January 4	5	6
34th Div CP	UCZ	LUD	VJJ	LQB	GYN	NKE	KUM
34th Div Rear Echelon	UBR	BZX	JWE	BZV	GQV	MOZ	WAE
34th Div Arty Hq	ABX	ZRY	BNW	EKZ	WMD	CHD	ZHD
125th FA Bn Hq	RTB	AZG	LXB	OUL	YZN	EQM	WBP
A Btry	PPQ	ZWW	GGM	EAC	NKU	DPK	APM
B Btry	BJS	MLO	BTH	OIH	SME	AJL	MQN
C Btry	TTU	SAP	OPM	YXW	GWK	VAL	KXO
Service Btry	WHS	LLU	TQI	KAU	CWG	YAF	JEN
151st FA Bn Hq	XAF	SVQ	QMD	KOZ	LKM	UIV	VTV
A Btry	KFE	HGA	VUD	ISN	FRM	GRE	UXJ
B Btry	IVQ	RAZ	ULQ	KKN	YHG	CIF	FUL
C Btry	TQO	PXY	BLG	YXM	AMB	RNM	RRG
Service Btry	LAB	ZFN	IDP	RPS	BHS	ZYD	EKB
175th FA Bn Hq	XEH	IPS	ANX	NOX	FKD	KNN	XQD
A Btry	SWP	JCJ	ETF	AZM	DCW	FVA	NNT
B Btry	LEN	IGH	BES	YIW	IBP	LLM	APA
C Btry	EAZ	BEK	DHU	AST	GCZ	YFH	YUS
Service Btry	DJZ	GPY	WTZ	ISA	RMB	KIM	WUK
185th FA Bn Hq	ZOW	BZL	UPY	IUX	FGQ	ZXI	WMQ
A Btry	ABZ	JOP	BEN	XAH	LQG	TGR	XNU
B Btry	VGU	ROK	WUE	KEM	MIJ	SRP	TLF
C Btry	OSF	TAQ	TOB	YTN	PRN	LSN	PRK
Service Btry	HZK	PTO	THK	ADZ	GQP	NHM	AFA
133rd Inf Regt Hq	TYO	ITS	NGL	DOV	POM	RNK	NFO
1st Bn	BSU	NTK	MCW	BAD	AJK	LOB	BYY
2nd Bn	BRC	JDM	GAQ	SIF	TDN	FMV	BWH
3rd Bn	WLF	HOA	RAG	RXB	XJM	IKE	AYE
AT Co	IWL	ALS	2XU	KFI	OIC	RQN	EJB
Cannon Co	PGN	FIW	EWL	ZWQ	QZA	RNE	HQV
I and R Plat	RYE	HFT	CNZ	TVN	XPQ	BAM	CVO
Service Co	HDB	FLX	WFI	BKU	DAK	ADL	YNV
135th Inf Regt Hq	JAM	GYG	GPJ	KRX	LJY	EMQ	WME
1st Bn	SPJ	UDC	XJN	PZU	LAC	JMK	FUU
2nd Bn	ACF	XLR	PAJ	EFB	WOP	YTG	WUR
3rd Bn	BKK	SGQ	JIR	ISM	MJJ	RHF	IHK
AT Co	SKC	UBL	FQE	KRM	NIQ	XEK	GIO
Cannon Co	OQZ	TUB	QKA	RLQ	IQH	NCX	EMD
I and R Plat	TRX	WGW	ZOJ	HDB	MHD	SNA	JAP
Service Co	FJQ	DBR	JBE	CCR	NHQ	XPF	DNH

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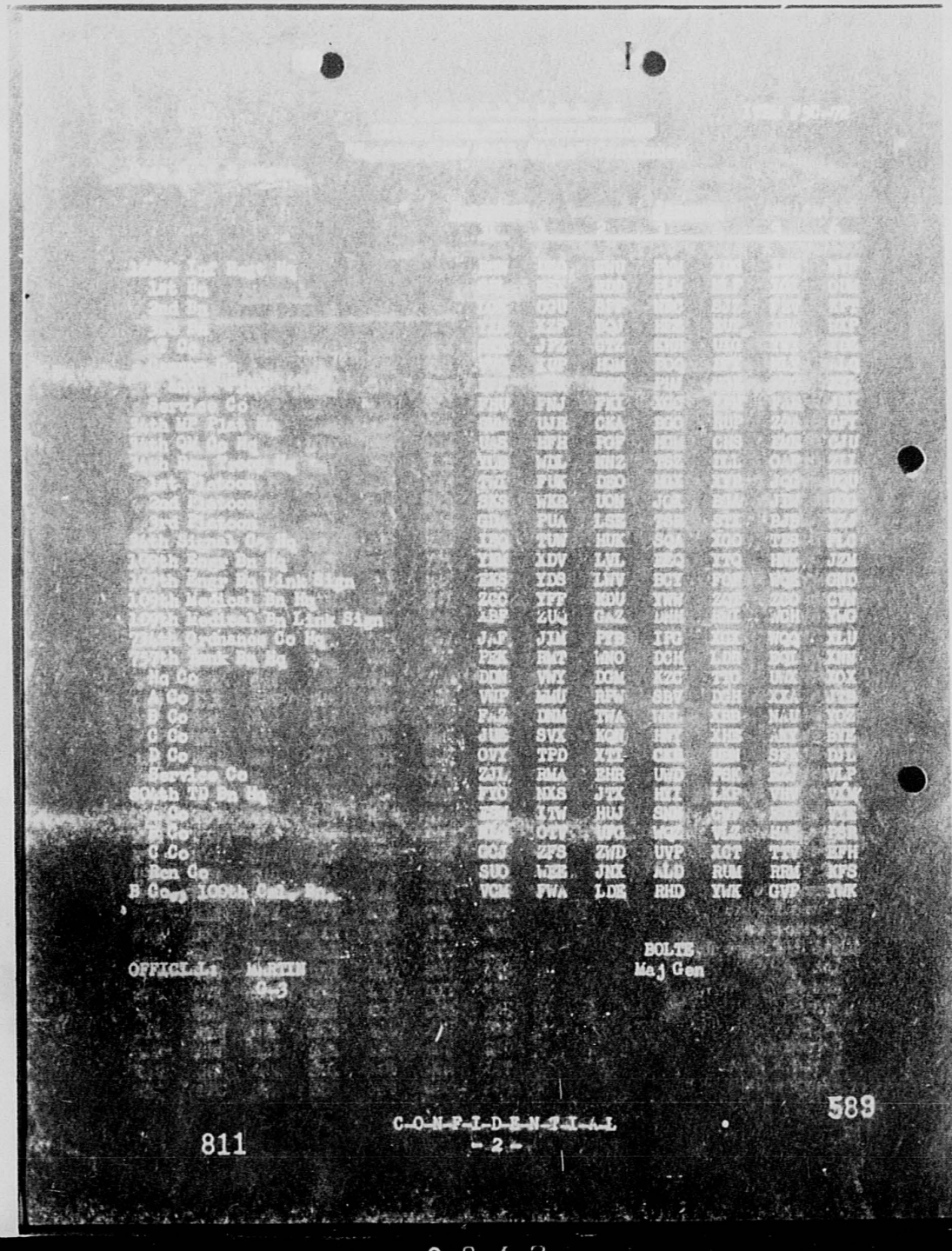
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OFFICIAL: MARTIN
Capt

BOLTE
Maj Gen

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ITEM #4A-12

SIGNAL OPERATION INSTRUCTIONS
"Telephone Code Names and Directory"

HQ 34th DIVISION
14 December 1944

Page 1 of 2 pages.

Effective: 0100A, 17 December 1944.

Destroy : Item #4A-11, 0100A, 17 December 1944.

1. WARNING: TELEPHONE CONVERSATIONS ARE NOT SECRET ! ! ! ! ! !
It is a violation of security regulations to discuss anything of a CONFIDENTIAL or SECRET nature over the telephone. It is EQUALLY true whether the call is completed via telephone equipped with scrambler equipment, via private lines, or thru local exchanges.

2. Use the classification of URGENT or PRIORITY for calls requiring immediate action. Indiscriminate use of these classifications defeats their purpose.

3. All calls should be asked for by number or by Directory name. Do not ask for party by name of unit or name of individual.

4. For information ask for WICKED 60.

5. For each Infantry Regiment, the 1st, 2nd, and 3rd Battalions are denoted by adding RED, WHITE, and BLUE, respectively, to the Regimental code name.

6. To designate Anti-Tank, Cannon and Service Companies the unit code name followed by the company will be used. Thus the Service Company of the 168th Infantry will be called WIZARD SERVICE. No other code names will be used.

7. ALWAYS RING OFF WHEN TELEPHONE CONVERSATION IS COMPLETED ! ! ! ! ! !

UNIT CODE NAMES:

Fifth Army	LIGHTNING	34th Division Headquarters	WICKED
II Corps	SPEEDY	34th Division Hq Co	WINSTON
IV Corps	KEYSTONE	34th M. P. Platoon	WORKHOUSE
1st Armored Division	WARRIOR	34th Signal Company	WIRELESS
Combat Command "A"	WARSHIP	34th Reconnaissance Troop	WING
Combat Command "B"	WARHAWK	133rd Infantry Regiment	WISECRACK
1st Armored Div Arty	WESTERN	135th Infantry Regiment	WINNER
85th Infantry Division	HARPOON	168th Infantry Regiment	WIZARD
85th Infantry Div Arty	HOOK	34th Division Artillery	WIGWAG
337th Infantry Regt	HEIGHT	125th Field Artillery Bn	WILLOW
338th Infantry Regt	HAVEN	151st Field Artillery Bn	WILDWOOD
339th Infantry Regt	HOIST	175th Field Artillery Bn	WISDOM
88th Infantry Division	LEGION	185th Field Artillery Bn	WINDY
88th Infantry Div Arty	LOOKOUT	109th Engineer Bn	WITNESS
349th Infantry Regt	LEATHER	109th Medical Bn	WISHFUL
350th Infantry Regt	LESSON	734th Ordnance Co	WONDER
351st Infantry Regt	LEGGING	34th Quartermaster Co	WIDOW
91st Infantry Division	DARE	84th Chemical Bn	RAMBLE
91st Infantry Div Arty	DYNAMITE	92nd Chemical Bn	SULPHUR
361st Infantry Regt	DANDY	91st Cavalry Recon Squadron	SCOUT
362nd Infantry Regt	DERBY	757th Tank Bn	SCORE RED
363rd Infantry Regt	DOMINO	804th TD Bn	LOTION
		805th TD Bn	SERPENT

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ITEM A-12

"Telephone Code Names and Directory"
Continued

The following Telephone Directory Numbers will be used on all installations within the Division. In the subordinate units S-1 will be on extension 1, the Commanding Officer will be on extension 6, etc. This Directory is presented in alphabetical order.

Adjutant General	7	G-2/G-3 (S-2/S-3) Additional Phone	323
Aide-de-Camp	13	G-4 Office (S-4)	4
Aid Station	46	Headquarters Commandant	36
Allied Military Government	50	Information and Education Officer	87
American Red Cross	64	Inspector General	9
Ammunition Officer	25	Judge Advocate	17
Assistant Division Commander	66	Liaison Officer	24
Chaplain	19	Message Center	11
Chemical Officer	23	Motor Pool	93
Chief of Staff (Executive Officer)	5	Photo Intelligence	59
Chief Operator	60	Postal Officer	20
Commanding General (Commanding Officer)	6	Provost Marshal	27
Counter Intelligence Corps	61	Public Telephone	33
Engineer Officer	15	Radio Station	28
Finance Officer	18	Signal Officer (Communication Officer)	10
G-1 Office (S-1)	1	Special Service Officer	37
G-1 Office Additional Phone	101	Surgeon	16
G-2 Office (S-2)	2	Teletype	30
G-3 Office (S-3)	3	Traffic Control Office	44
		Wire Chief (Zero Board)	31

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G-3

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HEADQUARTERS 34th INFANTRY DIVISION

10 December 1944

ADDENDA #1
SIGNAL INSTRUCTIONS #2)

ADD THE FOLLOWING AS PARAGRAPH 2f

1. All Message Center, Dispatch Records, and Copies of Messages actually processed through Message Center will be retained in the Unit Message Center as follows:

a. DIVISION HEADQUARTERS -- Five Weeks.

b. All Headquarters subordinate to Division -- 15 days minimum.

2. Coded traffic at Division Headquarters may be forwarded to Higher Headquarters each fifteen days when it is requested for security studies.

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Maj Gen

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Effective 0000A, 20 November 1944.

Delete paragraph 7c, "General Frequency Procedure", and substitute the following in its place:

c. Frequency Change Procedure.

(1) The procedure for changing frequencies which is outlined below will become effective 0000A, 20 November 1944.

(2) Frequencies of radio nets are changed under the following circumstances:

a. Pre-Arranged Changes. - These changes are either for technical reasons, in accordance with fixed schedules, or for security reasons. These changes always take place at a pre-arranged time. Security changes normally apply simultaneously to all nets within a given formation, and occasionally to all the nets in a theatre of war.

b. Secret or Changes. - These changes are made on order of the NCS by procedure signal over the link in question and are made when communication is no longer possible on a particular frequency, i.e., the normal daily change between day and night frequencies, alteration in range, extreme interference or deliberate jamming by the enemy.

c. Pre-Arranged Changes.-

(1) Full details of pre-arranged changes of frequency must be notified in advance to all concerned and must include the exact time at which the change will occur. No warning or other special transmission is made in connection with a pre-arranged change of frequency. All transmissions on the old frequency cease at the time the change in frequency is due to occur and communication is re-established on the new frequencies either immediately or at any convenient time as ordered for the net concerned.

(2) Frequency changes made for security reasons will be accompanied by a change in code signs.

(3) When a general change of frequencies has been ordered for the theatre, every effort will be made to ensure that no messages are in the course of transmission at the time the change is due to occur. If a Radio Telephony conversation is in progress, it will be finished as quickly as possible and the frequency change made. If a Radio Telegraph message is in progress, it will be broken off at the time ordered for the change and completed on the new frequency when communication has been re-established.

d. Emergency Changes.

(1) Only the NCS can order an emergency change of frequency.

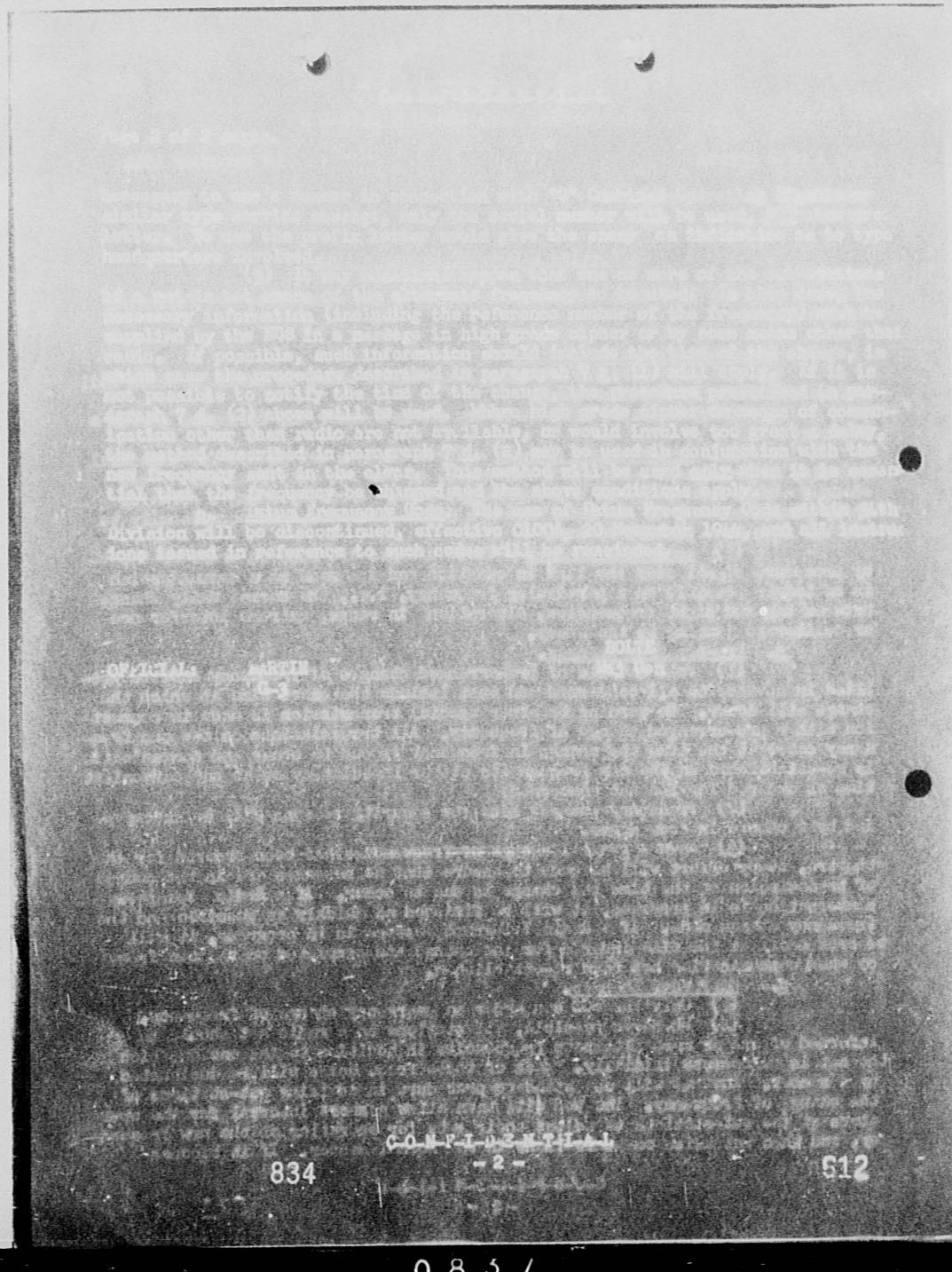
(2) Whenever possible, all stations on a radio net should be informed of one or more alternate frequencies in addition to the one on which the net is to operate initially. Each of these frequencies will be designated by a number. The NCS will use standard procedure in advising out-stations of the change of frequency. The NCS will then allow a short interval for the operators at the out-stations to adjust their sets for operating on the new frequency, and then establish communications in the normal manner. If it becomes

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HEADQUARTERS 34th INFANTRY DIVISION

12 October 1944.

Effective: 0100A, 13 October 1944.

Supplement Number 1 to)
Signal Instruction # 4)

1. The following supplementary measures will be followed by all units for wire construction:

A. All Lines will be placed on top of hedges and banks. No lines will be laid in the ditches or along the edge of roads.

B. In towns all lines will be completely overheaded. If this can not be done during original installation, it must be done as soon after as possible or by a dress up crew following the wire laying team.

C. Lines will be overheaded at all driveways to farmhouses, road junctions, etc. If a good overhead has already been made, use this and make your ties in the same place.

D. Overheads on all roads must be 14 to 18 feet high to clear high body trucks.

E. Wire recovery crews will not undress wire in use by other units. In untangling wire only the wire being recovered will be cut.

F. Communication Officers of all echelons will be responsible for the supervision of all wire construction and dress up within their units. Daily wire patrols will be sent out by all units to dress all lines within their sector.

G. Signal Company personnel will patrol and dress all lines down to advance Regimental Command Post, Regiment down to Battalion, etc.

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Maj Gen

OFFICIAL:
MARTIN
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ITEM #2A-7

SIGNAL OPERATION INSTRUCTIONS
"Distribution of Systems"

HQ 34th DIVISION
11 September 1944

Page 1 of 1 page.

Effective: 0200B, 14 September 1944.

Destroy : Item #2A-6, 14 September 1944.

1. The following chart shows the distribution of Codes and Ciphers within the Division.

UNITS	MAP REFERENCE POINTS CODE	PYROTECHNIC & SMOKE	AIR GROUND & PANEL	AFCODE	M-209 KEYS	AUTHENTICATION SYSTEM
DIVISION HQ	X	X	X		X	X
DIVISION ARTILLERY	X	X	X		X	X
F. A. BN'S	X	X	X	SEE NOTE 1	X	X
INF REGT'S	X	X	X		X	X
INF BN'S	X	X	X		X	X
RCN TROOP	X	X	X		X	X
ENGINEER BN	X	X	X		X	X
MEDICAL BN	X	X	X		X	X

Note 1:

(a) The same AFCODE will be used by all units of the Division including attached units.

(b) It may be distributed down to whatever level the individual unit desires; however it should not be sent to a level where frequent compromise will occur.

(c) In case of compromise the Division Signal Officer must be notified immediately by the most expeditious means.

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Maj Gen

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6. Ground Pyrotechnic Signals. (Continued)

c. Increase range of artillery fire - RED STAR CLUSTER.

d. Additional Pyrotechnic Signals may be used provided they do not conflict with signals prescribed above. Infantry Regiments and Division Artillery will prescribe additional signals for their own elements and will insure that all flanking units, and Division Headquarters, are notified of these signals.

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C-3

BOLTE
Maj Gen

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SIGNAL OPERATION INSTRUCTIONS
"Letter of Instructions"

ITEM # IB-2

HQ, 34th DIVISION
17 August 1944.

Page 1 of 1 page.

Effective: 0200B, 20 August 1944.

Destroy : Item #IB-1, 0200B, 20 August 1944.

1. These SIGNAL OPERATION INSTRUCTIONS are issued for use in the 34th Division. Changes will become effective as indicated in succeeding indices.

2. Except for such extracts as may be required, this S.O.I. will not be taken forward of Command Posts of front line battalions.

3. Loss of this S.O.I., or any item or extract thereof, will be reported immediately to the Division Signal Officer.

4. All items will be destroyed in strict compliance with instructions printed on the individual items. The S.O.I. must be kept current and when a new item is issued the one that it succeeds must be destroyed.

By Command of Major General BOLTE:

GUSTAV J. BRAUN
Colonel, GSC,
Chief of Staff.

OFFICIAL:

Mark T. Martin Jr.

MARK T. MARTIN JR.
Lt. Colonel, GSC,
AC of S, G-3.

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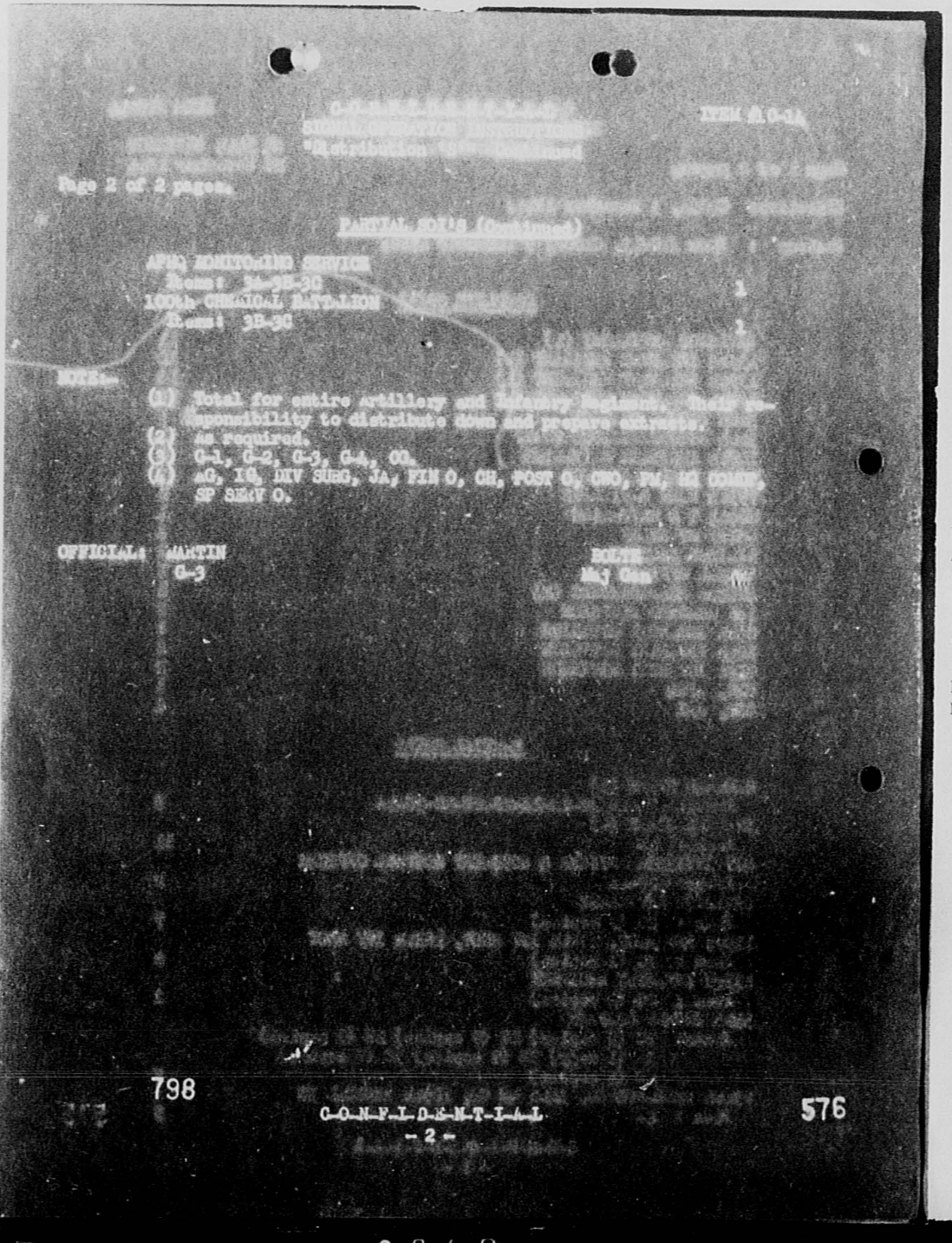
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Page 2 of 2 pages.

PARTIAL ROUTE (Continued)

APO: MONITORING SERVICE
Items: 34-38-36
100th CHEMICAL BATTALION
Items: 38-36

NOTES:
(1) Total for entire artillery and infantry battalion. Their responsibility to distribute down and prepare estimate.
(2) As required.
(3) G-1, G-2, G-3, G-4, CO.
(4) AG, IG, DIV SURG, JA, FIN O, CH, POST O, QMO, PM, AC COMDR, SP SERV O.

OFFICIAL: MARTIN
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ROUTH
Maj Gen

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SIGNAL OPERATION INSTRUCTIONS

"Wire Line Tagging" - ITEM #.B-3

HQ 34th DIVISION
17 August 1944

Page 1 of 1 page.

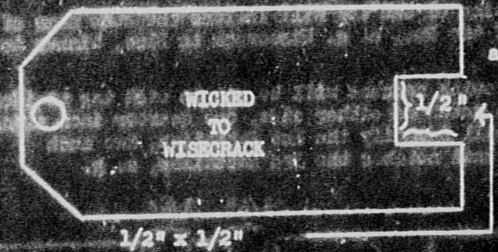
Effective: 0200B, 20 August 1944.

Destroy ... Item #.B-2, 0200B, 20 August 1944.

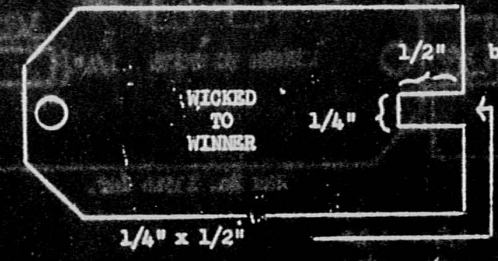
The following system of tagging wire lines will be used by units of this command.

1. The 34th Signal Company will tag its lines by marking on its tags in pencil or crayon, the telephone code name of the Division and the code name of the unit to which the line goes. e.g. Wicked to Wisecrack, Wicked to Wonder, etc.

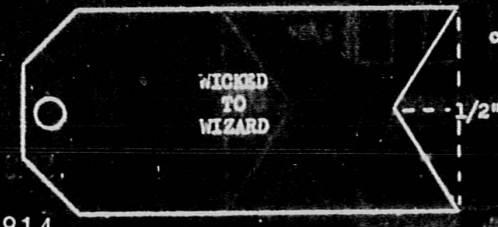
On the lines to the Regiments and Division Artillery, the following identifying marks will also be made on the tag.



a. At the base of the tag, as pictured a one half inch square will be cut out of the tag. This tag identifies the 133rd Infantry.



b. At the base of the tag, as pictured a rectangle one quarter inch at the base and one half inch deep will be cut out of the tag. This tag identifies the 135th Infantry.



c. At the base of the tag, beginning from each corner a triangle that is one half inch high will be cut out of the tag. See diagram. This tag identifies the 168th Infantry.

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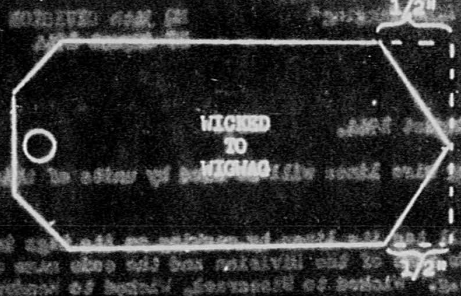
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SIGNAL OPERATION INSTRUCTIONS

ITEM #3-3

"Wire Line Tagging" Continued



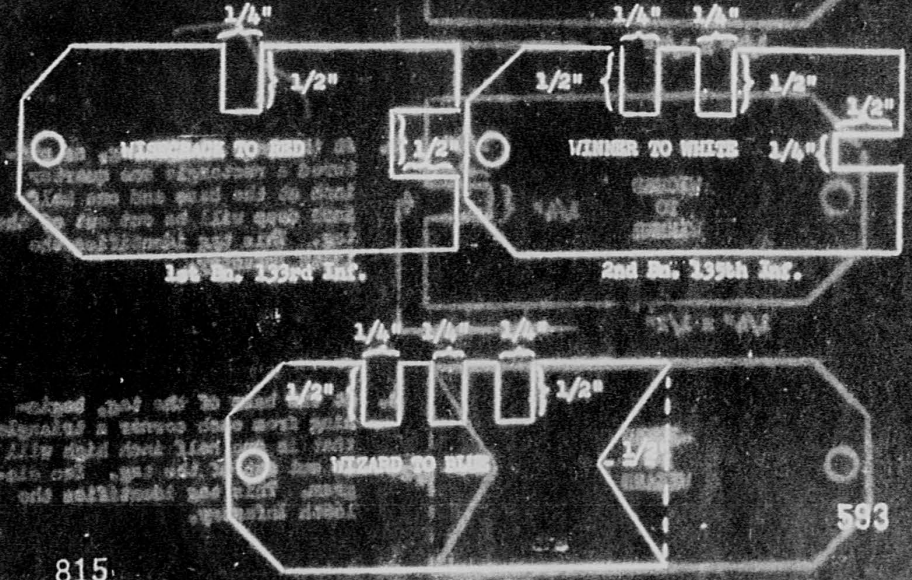
...Tags on lines of Division Artillery will be cut as in diagram.

2. The Infantry Regiments will tag Battalion lines in the following manner:

a. Each Regiment will maintain on its tags, on all Battalion lines, the identifying base cut as given in paragraph #1.

b. The written designation of the tag will include the code name of the Regiment and the code name of the Bn., e. g. Wisecrack to Blue, Winner to White, etc.

c. In addition the following notches will be cut on each tag to identify the Battalion involved. One notch on either side, one quarter inch deep the side and one half inch deep will identify the 1st Battalion, two such notches the 2nd Battalion, three such notches the 3rd Battalion, e. g.



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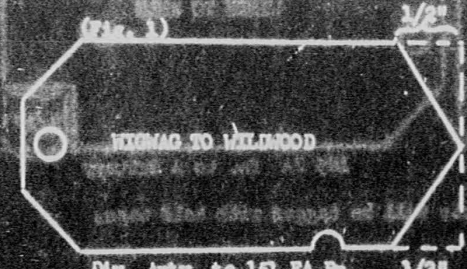
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3. Division Artillery will tag lines in the following manner:

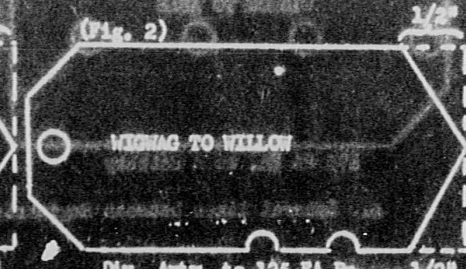
a. Division Artillery lines to all Battalions will be cut as shown in Figures 1 to 4 with appropriate unit code name identifications, e. g. Wigwag to Wisdom, etc.

(Fig. 1)



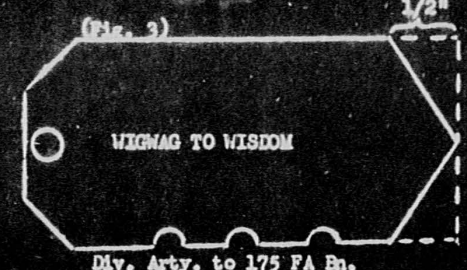
Div. Arty. to 151 FA Bn.

(Fig. 2)



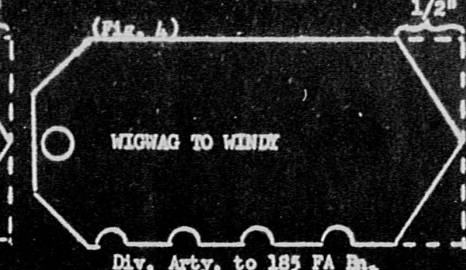
Div. Arty. to 125 FA Bn.

(Fig. 3)



Div. Arty. to 175 FA Bn.

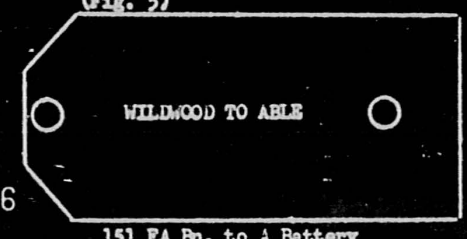
(Fig. 4)



Div. Arty. to 185 FA Bn.

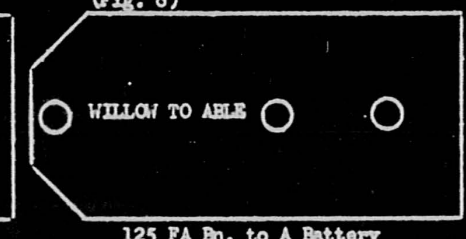
b. Artillery Battalions will identify Battalion lines to Batteries by cuts as indicated in Figures 5 to 8. Battalions may make other additional identifying cuts on tags provided they do not conflict with identification marks of other units and are approved by the Division Signal Officer.

(Fig. 5)



151 FA Bn. to A Battery

(Fig. 6)



125 FA Bn. to A Battery

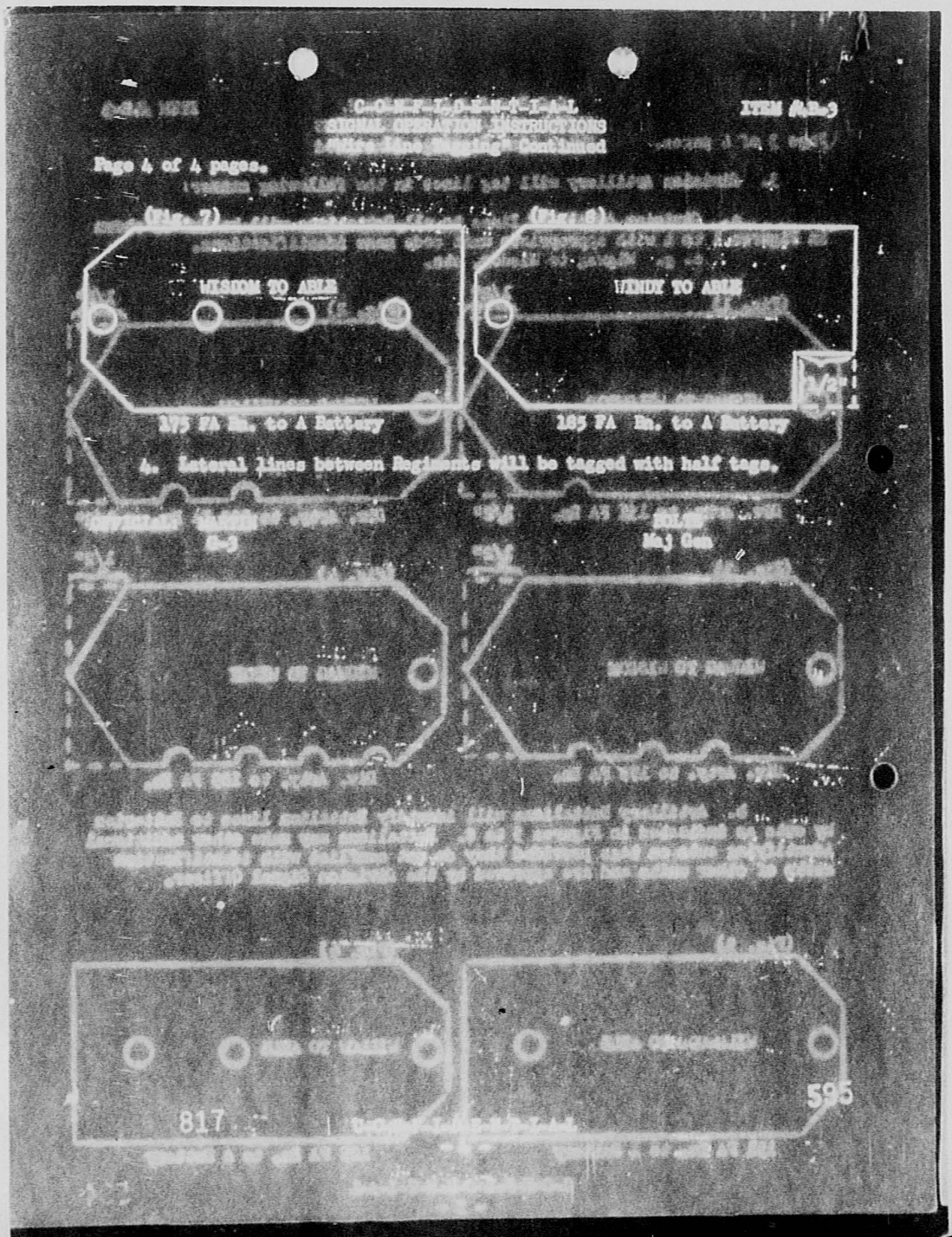
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082

HEADQUARTERS 34TH INFANTRY DIVISION

Page 1 of 2 pages.

Reference is made to Signal Operation Instructions as Annex Chart "A" dated 9 August 1944, which supersedes the current Chart "A" to Signal Instruction #3, this Headquarters. The following supplementary instructions are added.

1. The Division Command Net "A" and Liaison Net are now combined. This Net will be comprised of the following stations:

(a) Net Control at Division Headquarters.
(b) A station at each flanking Division with the Liaison Officer from the 34th Division.
(c) A station at each regiment to move and operate with the Regimental S-2 / S-3 Sections.
(d) A station available upon call to the CG. A 1/4 ton truck will be furnished.

2. Both Command and Liaison traffic will be passed over this net. All sets and personnel will be furnished by the 34th Signal Company. This personnel will also handle all cryptographic and message center duties on their own radio traffic. At the Net Control Station located at Division Headquarters, Message Center personnel will operate with the radio station. At the close of each 24 hour (2400B) period the files at Division will be turned in to Division Message Center. All out stations will keep files complete and turn in to Division Message Center at intervals not greater than every seven days. Every station should copy and decode all traffic on this net and pass it to the proper section at the Headquarters being served.

3. It is of prime importance that the station at the Regimental C. P. always travel with and locate near to the Regimental S-2 / S-3 Section. Thus the Regimental Commander, when away from his C. P. can be contacted by communication from Division to Regimental C. P. over the SCR-193 Command Net and then relayed from the Regimental CP to the Regimental C.O. over the Regimental SCR-300 link.

4. The Division Command Net "B" will be comprised of the following stations:

34th Div RR Ech	(When required)
109th Engr Bn	(When wire fails)
109th Medical Bn	(When wire fails)
Attached Tank Bn	
Attached T D Bn	
Attached Chemical Bn	

The 34th Signal Company will furnish sets and personnel for NCS of Command Net "B" and Div RR Ech. All other units will furnish their own.

C-O-N-F-I-D-E-N-T-I-A-L

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5. The radio link to Corps or Higher Headquarters will be an SCR-399 radio operated by the 34th Signal Company and located at Division Headquarters.

6. The Reconnaissance Liaison Net will be operated by 34th Reconnaissance Troop personnel and will

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[redacted] encode and decode versions are each printed on a single key-[redacted] the letters, numerals and [redacted] facilitate operation, one alphabet [redacted] printed on [redacted] groups are digraphic. On the [redacted] strictly alphabetical order.

3. Distribution.

[redacted] will be held by all users of [redacted] to and including Company Headquarters. [redacted] will use a prearranged message code of the same type as AFCODE.

b. AFCODE instructions and code will be issued on an S.O.I. item. A weekly S.O.I. item will give the edition numbers and the effective dates of the codes to be put into use.

c. Reserve editions of the code will be held at Division level.

4. Method of Use.

a. AFCODE is not intended for ad lib conversations. Whenever time permits, the calling party will write out in code the message he wishes to send before making his call. The called party will then write out in code the answer he wishes to make before replying. The phonetic alphabet will be used in the actual voice transmission.

b. A mixture of plain and code language is not permitted, since such a mixture inevitably provides clues as to the meanings of the code groups.

C-O-N-F-I-D-E-N-T-I-A-L

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4. Method of Use (Continued)

c. As few words as possible will be spelled out. However, when spelling is employed alternate code words will be used for double letters.

(1) Locations should be given by map coordinates, not by spelling place names.

(2) When a desired word does not appear in the vocabulary, every effort should be made to find a synonymous expression, rather than spelling the word. The vocabulary is sufficient to make most tactical military messages possible with little necessity for spelling, but it does not provide many ways for saying the same thing. A thorough knowledge of the contents of the code and practice in its use will pay big dividends in rapid and satisfactory communication.

d. Variants are provided for letters, numerals, and some high frequency [illegible] variants be used with approximately equal frequency.

[illegible] given in their simple forms. If it is clear from the context that the simple form is intended, the simple form code group for the simple form will be used.

[illegible] and not [illegible]

[illegible] will be [illegible] on [illegible] will be

[illegible] number [illegible]

[illegible] means of [illegible]

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C-O-N-F-I-D-E-N-T-I-A-L

082

HEADQUARTERS 34TH INFANTRY DIVISION

5 May 1944

Effective: 0200B, 14 May 1944.
Destroy : No. 1 dated 8 September 1943.

Signal Instruction)
No. 1)

PURPOSE, DISTRIBUTION AND INDEX

PURPOSE:

1. Effective at once there will be two sets of Signal Publications within the Division. The first will be Signal Instructions. This series will cover instructions for use of variable SOI Items, Standard Operating Procedure, Signal Supply, Signal Repair, etc. The second series will be the Signal Operation Instructions and will contain the daily changing Code Keys, Army Code Signs, etc. This system will serve to give all Communication Officers an up to date file on Signal Instructions and will also reduce the size of the SOI to a minimum.

DISTRIBUTION:

2. The Signal Instructions will be distributed as follows:

Division Headquarters (CG, C/S, G-1, G-2, G-3, G-4)	6
Signal Officer	1
34th Signal Company	6
34th Reconnaissance Troop	1
109th Engineer Battalion	1
109th Medical Battalion	1
Division Artillery	6
100th Infantry Battalion Sep.	1
133rd Infantry Regiment	4
135th Infantry Regiment	4
168th Infantry Regiment	4
Liaison Section	1
Each attached AA - TD - Tank or Chemical Bn.	1
Higher Headquarters	0

It will be the responsibility of Division Artillery and Infantry Regiment Headquarters to distribute to their Battalions so that each Battalion Communication Officer has a set of Signal Instructions.

INDEX:

1. Sig. Inst.

No.	Subject	Date
1	Purpose, Distribution and Index	14 May 1944
2	Signal Instruction for Codes and Ciphers	14 May 1944
3	Signal Instruction for Radio Communication	14 May 1944
4	Signal Instruction for Wire Communication	14 May 1944

OFFICIAL: MARTIN
G-3

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Maj Gen

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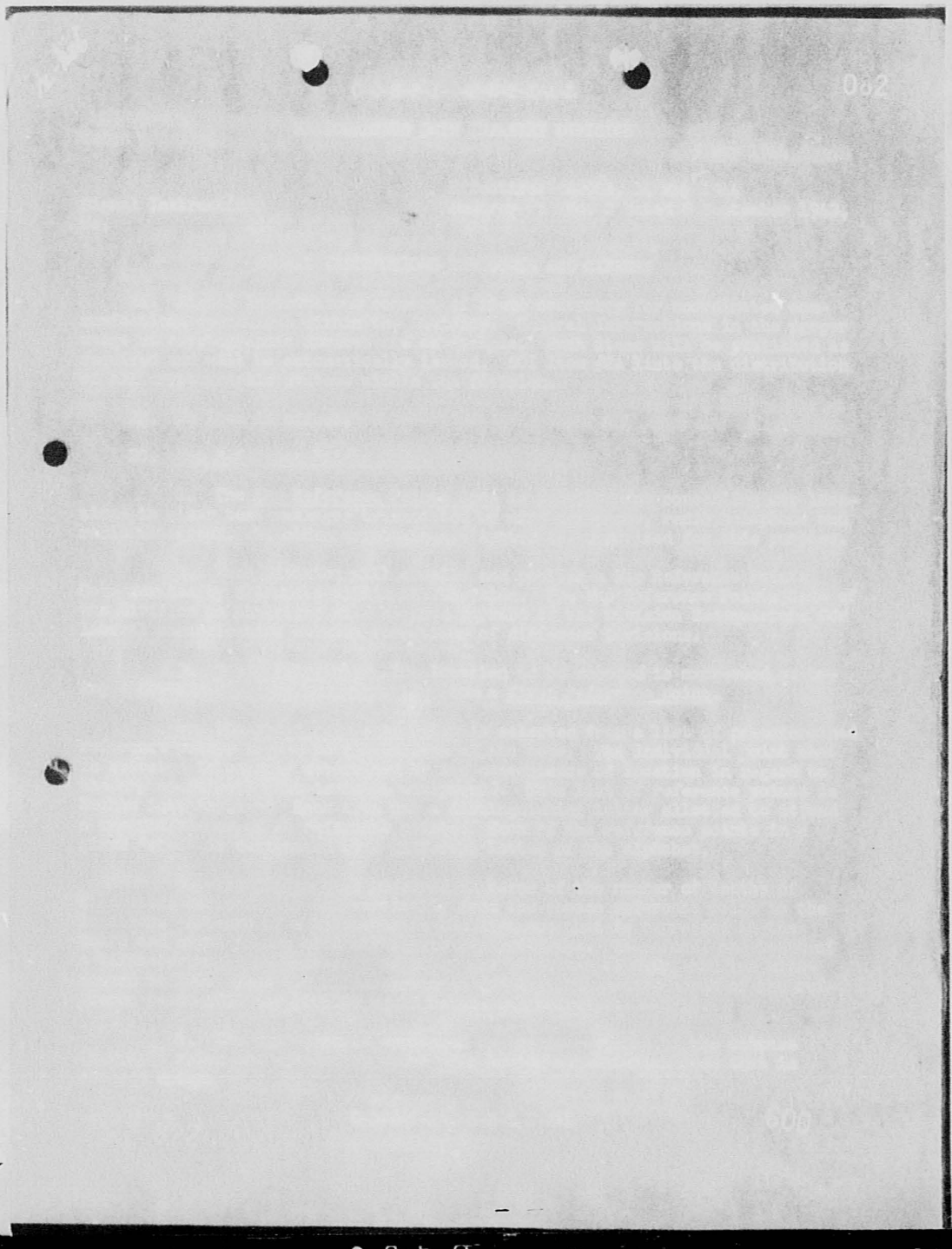
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7. The encoded map reference must contain the following information which, for convenience in encoding and decoding, is sent in the following form:

AB C123 D456, where

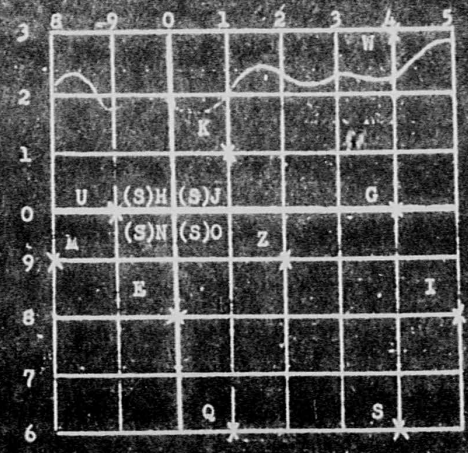
A – The letter designating the area
B – The letter designating the reference point itself.
C – The horizontal (E or W) direction of the location from the reference point, encoded by the Direction Encoding Table.
123 – The horizontal distance from reference point to the location.
D – The vertical (N or S) direction of the location from the reference point, encoded by the Direction Encoding Table.
456 – The vertical distance from reference point to the location.

8. The following is a sample copy of a map coordinate code. It will be noted that the code letters for areas and reference points are used for the duration of the code, but that a new direction encoding table is used every day.

SAMPLE REFERENCE POINTS CODE

Area Letter Code Point	Letter
(S)H 9000	U
(S)J 1010	K
(S)J 4000	G
(S)J 4030	W
(S)H 8090	M
(S)O 0080	E
(S)O 1060	Q
(S)O 2090	Z
(S)O 4060	S
(S)O 5080	I

Direction Encoding Table	E.	W.	N.	S.
Day 1	Z	U	P	F
2	V	K	X	N
3	M	L	B	S
4	K	J	T	O
5	H	S	E	N
6	L	F	G	O
7	R	H	U	D



Examples Using Sample Code

a. Map coordinate to be encoded on D1: (S) O 1585
Letter designating the area: P
Reference point selected: U
Horizontal direction encoded: Z
Horizontal distance: 250
Vertical direction encoded: F
Vertical distance: 150
Encoded coordinate: PU Z250 F150

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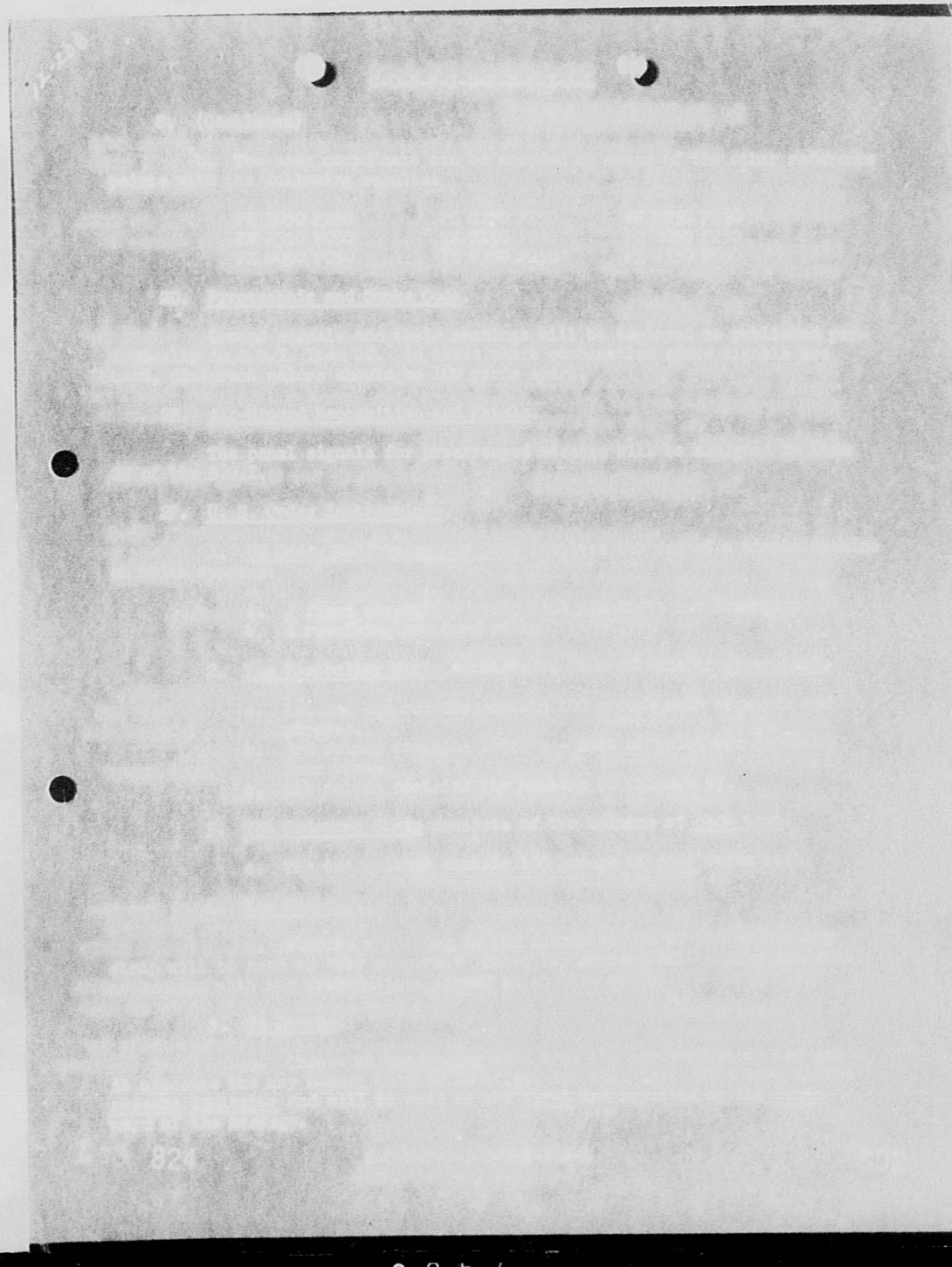
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5. To Encode (Continued).

c. Proceed with encoding the message using the code words from the left hand column of the codeword strip for the meanings in the left hand column of the vocabulary strip, and the codewords from the right hand column for the meanings in the right hand column of the vocabulary strip.

d. For each message a different indicator codeword will be used. When placing up a Codex Machine to use it, the codeword strip will always be turned at random to a new position before enciphering a message.

6. To Spell.

a. On one line of the vocabulary strip is the phrase "Spell On" in both columns. On two lines in the alphabet column is printed the phrase "Spell Off". To indicate spelling, send one of the codewords opposite "Spell On"; to indicate end of spelling send one of the codewords opposite "Spell Off."

b. When spelling alternate codewords will be used when double letters appear. (i. e., LL, AA, SS, etc.).

7. To Encode Figures. (All figures are of two digits, i. e., 06, 83, 00.)

a. In the vocabulary are phrases "Next Group Numbers", "Next 2 Groups Numbers", etc. Choose the codeword opposite the desired phrase to indicate how many groups of numbers are to follow. Then proceed to encode the number on the vocabulary strip with the codewords opposite.

b. Use alternate codewords when figures are repeated.

8. To Encode a Map Reference.

a. The code word for the phrases "Next group numbers" etc. will not be used to encode a map reference but will be replaced by "MR" and a number sent in the clear. "MR" indicates that a map reference follows and the number indicates how many of the groups following are numbers.

b. Thus, an encoded map reference of 6 numbers would appear as: MR 3 followed by 3 Codex codewords (the encoded numbers).

II

1. The New Vocabulary and Codeword Strips.

a. Two new vocabulary strips, general and artillery, are replacing the one vocabulary strip that has been in use, and three codeword strips, general, artillery and armored, are replacing the one codeword strip that has been in use.

b. The general and armored codeword strips are to be used with the general vocabulary strip, and the artillery codeword strip is to be used with the artillery vocabulary strip.

c. In order to avoid confusion as to which codeword strip is being used it may be identified by placing one of the following three lettered words at the beginning of the encoded message text:

Gen - General
Art - Artillery
Arm - Armored

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Thus, the first six usable letters, SFMAOD, will make up the internal indicator.

(9) Align the six wheels according to the letters obtained in step ngv (SFMAOD) and begin encipherment of the messages.

(10) Thus every message will have a system indicator letter (the letter which was enciphered 12 times) and an external message indicator (the six letters which were chosen at random in step "5"). These indicators will appear at the beginning and end of each message. Digraphs will be used by each unit issuing an SOI and operating under the control of or with VI Corps, for the purpose of indicating externally which cipher key list was used in setting up the Converter M-209-A. This will allow message centers to know by inspection which set of keys were used in preparation of the message and will also allow for the relaying of many M-209-A messages without reenciphering because message center personnel will be able to ascertain if addressee holds the key in which the message was originally enciphered. The indicators and key list indicator will appear thus:

A A O R M U R E H N .... A A O R M U R E H N
(a) (b) (c) (d) (a) (b) (c)

(a) System indicator (the letter selected, repeated in these two positions, indicates use of M-209-A).
(b) External message indicator.
(c) Cipher key list indicator.
(d) Cipher text of message.

b. To decipher:

(1) Note key-list indicator for determination of key list used. Set up Converter M-209-A with the list of keying elements. Make 26 letter check.

(2) Set the counter at zero or a multiple of five.
(3) Set encipher-decipher knob at "C".

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C-O-N-F-I-D-E-N-T-I-A-L

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(6) Return counter to zero or a multiple of five.

(7) Set [illegible] in position "0", the [illegible] obtaining position.

(8) From the twelve cipher equivalents, extract the internal message indicator as described in paragraph b. (8).

(9) Align the key wheels according to the letters obtained [illegible].

III

[illegible] FOR LONG MESSAGES

1. A message should not exceed 100 groups (500 letters) enciphered [illegible]. Each will be broken up into parts, [illegible]

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1. (Continued)

d. Regular use of the identifying digraph gravely endangers the security of the code sign system. Used only when necessary, it can give little assistance to the enemy.

2H. Authentication System.

1. General

This authentication system will be used within the Division and will appear as SOI Item 2H. The following are its primary purposes:

(1) Message authentication
(2) Radio station authentication
(3) Messenger identification

The authentication of messages and message center personnel will normally be performed by message center personnel. Authentication of radio stations will be performed by operating personnel.

2. Description

a. The table consists of a normal alphabet with three rows of random numbers under each letter. Under the bottom row of numbers is a random mixed alphabet.

b. Sample table:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Row 1	8	7	4	2	1	0	6	5	3	9	7	7	2	1	0	8	4	2	3	7	5	1	9	0	3	7
Row 2	3	1	3	4	2	9	7	4	4	1	1	0	5	7	9	6	4	2	1	8	6	5	4	2	1	5
Row 3	6	5	6	7	1	6	3	0	1	6	3	5	6	2	1	6	5	6	7	9	0	6	3	9	5	4
	D	L	O	S	F	Z	K	N	E	Q	I	W	A	V	J	R	B	M	U	G	P	Y	C	X	H	T

3. Procedure

a. To Challenge: Select any three (3) letters at random. These three letters are sent as the challenge.

b. To Reply: Add the numbers appearing under the three letters of the challenge. The first number being taken from the first row, the second number from the second row and the third number from the third row. The correct reply is the sum followed by the letter appearing below the last figure.

c. Examples: (Using the table above).

Challenge	Reply
JUK	18I
FTB	13L
RST	12G
OLJ	6Q

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4. Under no circumstances will an operator refuse to accept a message because of wrong authentication. However, if a wrong authentication is given, the fact should be noted on the message. If time permits another challenge may be used to verify the calling station.

5. After a station has correctly answered a challenge, he will always challenge the other station to verify that station's authenticity.

6. SOI Item 2H will contain a daily changing authentication table.

7. To the right of each table will appear a 3 letter group to be used as a messenger challenge for that day. All messengers should be advised of the "answer" to that day's challenge. Message center chiefs will challenge messengers when any doubt exists as to their person.

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MARTIN
G-3

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C-O-N-F-I-D-E-N-T-I-A-L

062

HEADQUARTERS 4th INFANTRY DIVISION
Office of Signal Officer

13 June 1944.

Amendment # 1 to
Signal Instruction # 4)

Amend paragraph C-1 to read as follows:

1. The Superior unit is responsible for wire communication from its Command Post to the Command Post of its subordinate units. Lateral communication will be the responsibility of the unit on the left. Both units will shoot trouble on lateral lines.

RYDER
Maj Gen

OFFICIAL:

MARTIN
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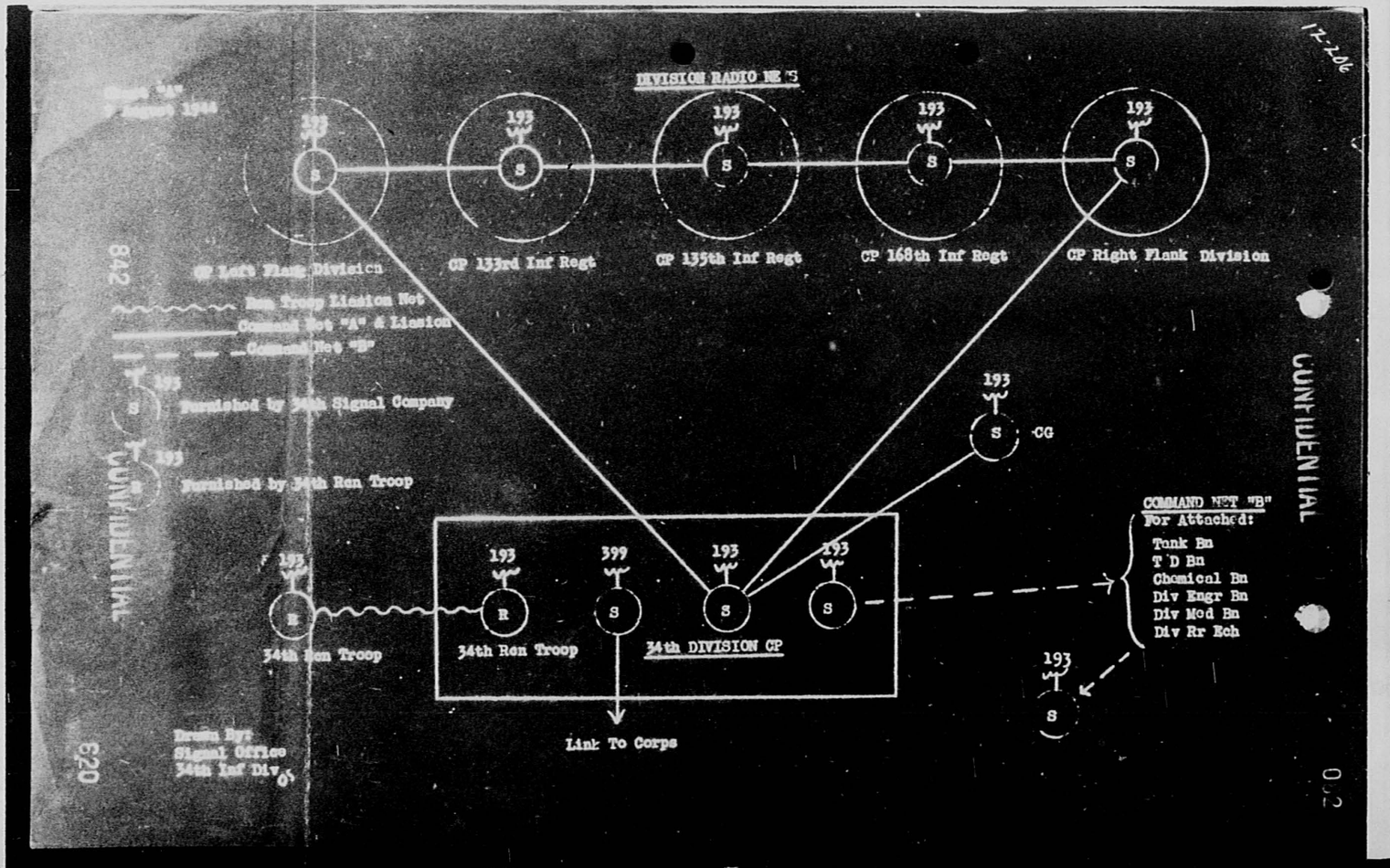
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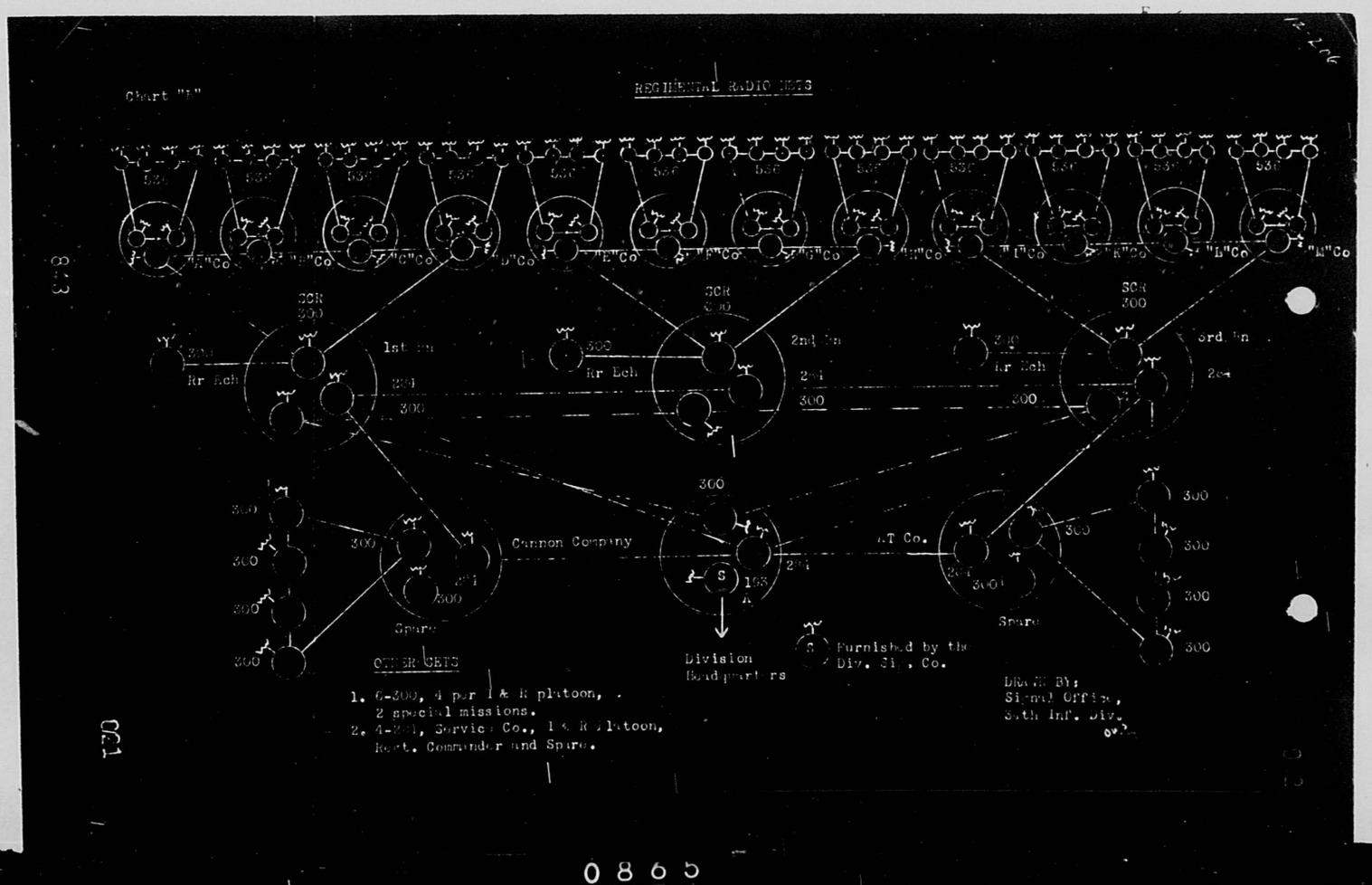


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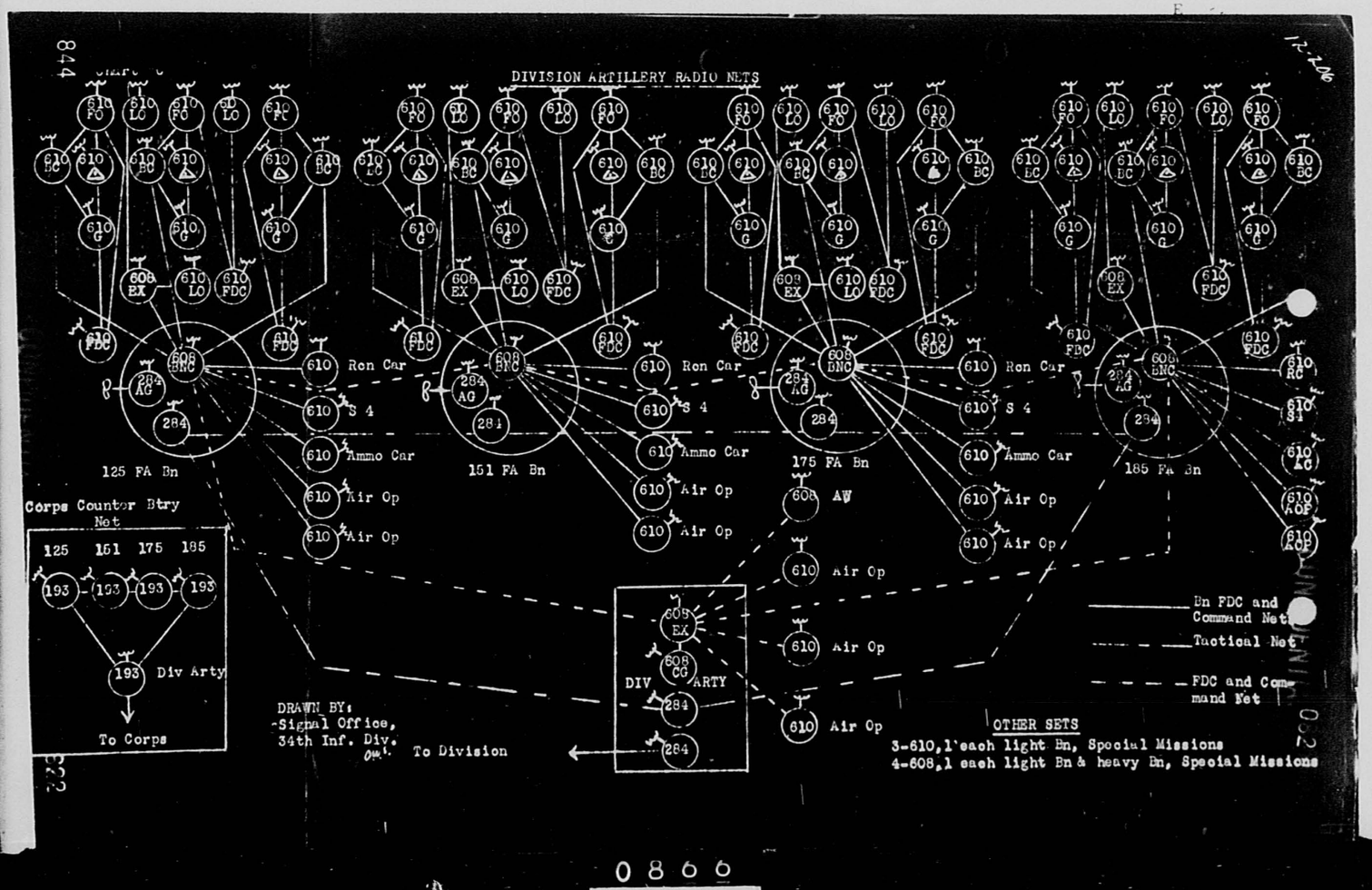


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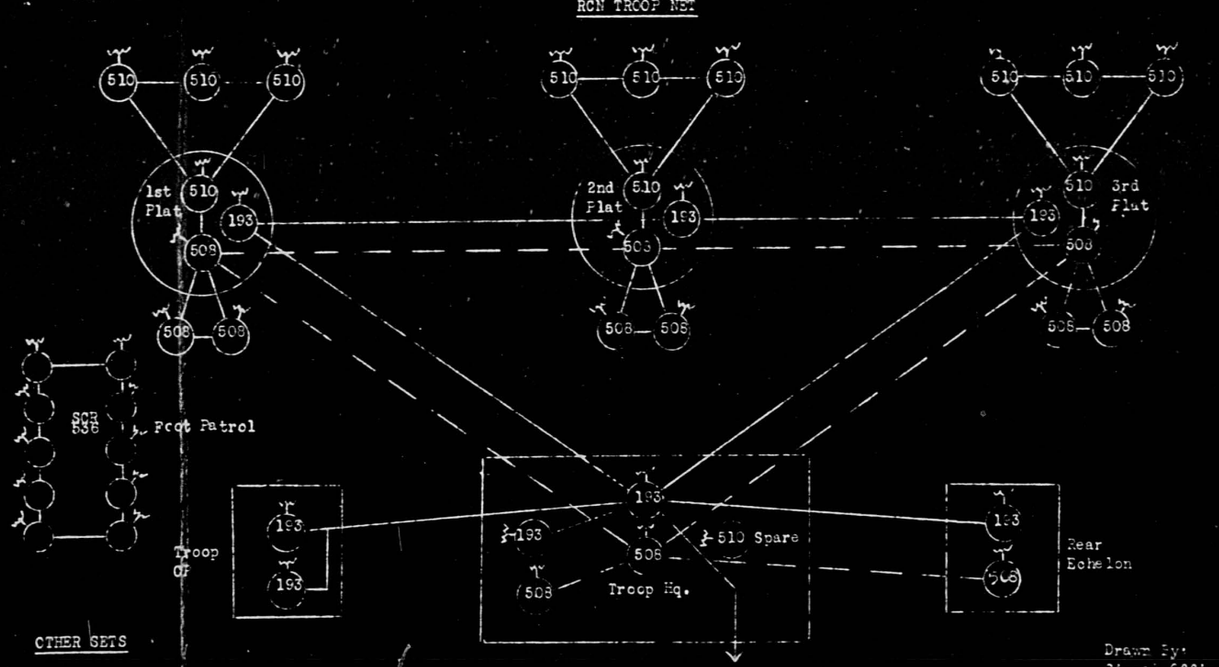
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Chart "D"

RCN TROOP NET



OTHER SETS

1-193, Div. Hq. Liasion.
1-508, Mounted in Armored Car for CG use.

To Div. Hq. Liasion Net

Drawn By:
Signal Office,
34th Inf. Div.
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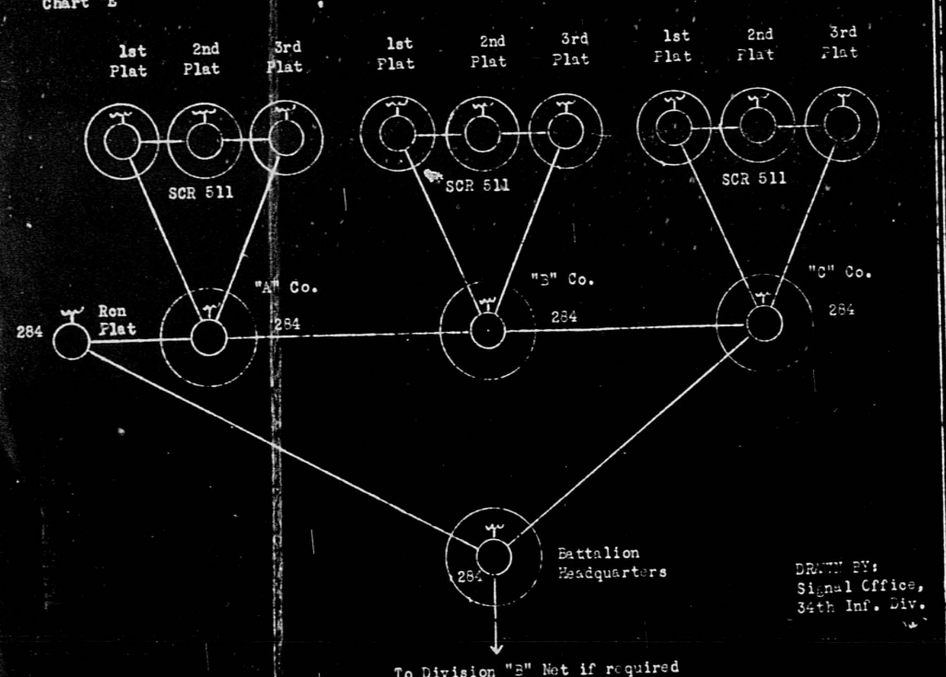
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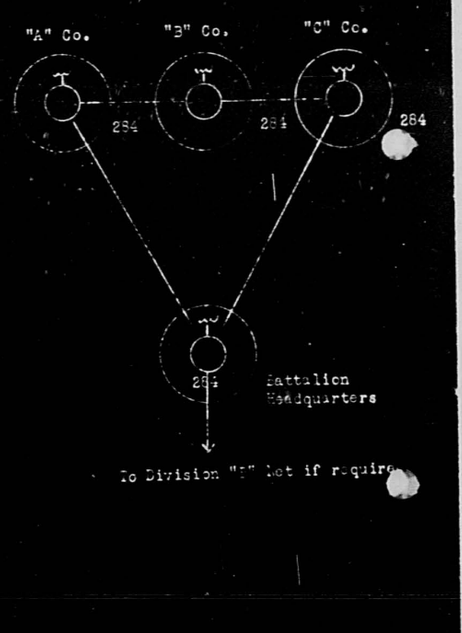
Chart "E"

ENGINEER BATTALION RADIO NETS



DRAWN BY:
Signal Office,
34th Inf. Div.

MEDICAL BATTALION RADIO NETS



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7. a. The following Datum Frequency Procedure will be used to provide frequency changes to be made without prior arrangement. It will be used only when prior arrangement is impossible.

b. The datum code word and the datum frequency are used as a basis for making frequency changes, either plus or minus. The code word denotes, "the following are instructions for a change of frequency on this channel."

c. The new frequency will be indicated by a plus or minus number which is to be applied to the datum frequency, preceded by the effective datum code words set forth in paragraph f.

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C-O-N-F-I-D-E-N-T-I-A-L

d. If the change is not effective immediately, the time at which the change is to be effective will follow the datum code word and the conversion number and will be sent in the clear. The separation sign "ii" will be used for clarity.

e. If any station has not made contact on the new frequency at the end of 15 minutes that station will revert to the original frequency.

f. Example:

A control station wishes to direct a change of frequency to 4025 Kc at 0200B. Assume the datum code word for the day is SPARK and the datum frequency is 5510. BDP is the link sign of the out station.

To instruct the out station to change to 4025 Kc, the number 4025 is subtracted from the datum frequency 5510. Since the new frequency is less than the datum frequency the difference (1485) is preceded by the word MINUS. If the new frequency was greater than 5510 Kc the difference would be preceded by the word PLUS.

Control station will send:

BDP SPARK MINUS 1485 ii 0200B K

The out station will repeat this transmission:

BDP SPARK MINUS 1485 II 0200B K

Control station will then acknowledge last transmission as correct or make necessary corrections. When correct, control will transmit:

BDP C K

Out station will reply:

BDP R AR

Both stations will then change to the new frequency (4025 Kc) at the indicated time using normal procedure to re-establish communication.

OFFICIAL: MARTIN
G-2

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Paratroop Operations of
82nd (American) Airborne
Division
13th – 15th Sept, 1943

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Report on the Paratroop Operations of 82nd (American) Airborne Division on nights of 13th-14th and 14th 15th September, with particular reference to the Navigational Aids used in these operations.

TACTICAL POSITION.

The operation of the 82nd Airborne Division on the nights of 13-14th and 14-15th September were made necessary by the serious situation which had developed on the Salerno sector of the Allies' attack on Italy. A beachhead stretching from Campenella to Agripolli had been siezed by the American Vth Army and initially the landed troops held the high ground which surrounds the Beachhead in a gigantic arc some 7 miles inland. The German counter-attacked, however, and drove the Allied troops from the hills and advanced between the two halves of the Army, the X th British Corps and the VI th American Corps, down the Sele river. By the 13th of September it had penetrated beyond Battipoglia and was threatening to cut the Army in two.

To prevent this all available forces of the VI th Corp had to be drawn northwards into the Sele river-Battepaglia area. Only a few companies of beach engineers and other non-combattant troops were left holding the various passes through the mountains on the South flank of the VI th Corps. An attack by the Germans on this flank could have penetrated without difficulty to the coast and caught the VI th Corps in a pincer movement. Reconnaisance reported German troop movements which might indicate such an intention.

In these circumstances reinforcements were imperative and it was accordingly decided to drop by parachute behind our own lines the units of the 82nd Airborne Division which had been standing by in Sicily for some days. It was also decided to carry out at the same time a previously planned attack on Avellino, the communications centre of the German Army operating in the Salerno area, in the hope that it would be able to prevent reinforcements coming to the front.

PLAN OF OPERATION GIANT III.

It was decided that in the Salerno sector half of the 504th Airborne Regiment (800 troops) should be dropped on the 1st night (13-14th Sept.) and if the drop was successful the whole of the 505th Airborne Regiment (2100 troops) would be dropped on the same DZ the following night. The troops would be carried on both occasions in the C-47's and C-53's of 52nd T.C. Wing. A DZ was chosen some 5 miles behind the front line between the main road and the sea. (Coordinates 15° 1' E, 40° 23'N), and since it was in friendly territory arrangements were made to light the DZ with a large T, the vertical stroke of the T pointing down wind.

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Despite the considerable aid which these lights alone could provide, it was decided that on each night a pathfinder force of 3 a/c should be sent in 15 minutes before the main force carrying with it all available aids which could be set up on the DZ to assist the oncoming a/c in finding the DZ. The pathfinder force itself would have to find the DZ by D.R. navigation and by recognition of landmarks seen in the bright moonlight along the route. Navigation to the vicinity of the DZ was fairly simple because the route passed up the west coast of Italy on which were several promontories which could be readily identified.

PLAN OF THE OPERATION "AVALANCHE".

Units of the 509th Regiment were chosen to make the attack on Avellino and the C-47's and C-53's of the 51 Wing were to carry the troops. The course as far as the Salerno plain was similar to that flown by the a/c of 52 Wing on their operations. From there the correct pass between the mountains had to be identified. When found this led straight to Avillino. The D.Z. itself was chosen in a side valley below Avellino. It was not easy to distinguish the correct side valley from others and a pathfinder force was accordingly to fly in 15 minutes ahead of the main force to mark the spot for the main force.

NAVIGATIONAL AIDS AVAILABLE FOR PARATROOP DROPPING.

EUREKA MARK II.

Eureka is an R.D.F. responser beacon weighing approximately 55 lbs. It can be packed in an ordinary sized kitbag and the British Independent Parachute company has found that the best way to drop it is to strap it to the leg of a paratrooper. When the paratroopers chute opens a quick release device releases the bag from his leg so that it can be lowered on 20 feet of rope. By this method the kitbag prevents the paratrooper from oscillating and yet does not affect his rate of fall when he lands. The bag can be readily recovered by following the rope from which it was suspended below the paratrooper.

There is a choice of frequencies in the beacon both for interrogation and reply which are adjusted by knobs on the top of the set. The beacon can be keyed to give out an agreed call sign. There are detonators fitted in the beacon which give complete destruction. Even if the beacon falls into enemy hands without being destroyed, the fact that the frequencies and the call sign is not know to the enemy would prevent him using it as a decoy.

The beacon has 3 units, a Nife battery of 6 hours life, a power unit and the combined receiver-transmitter. The aerial is an end fed dipole attached to the top of a 6 foot aluminum tripod. Other Marks of Eureka have been designed including a light weight set which can be carried by a paratrooper in a special belt. The best beacons available, however, in North Africa were the British made Mark II.

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The interrogater equipment in the a/c which works with the Eureka is known as Rebecca. Its cathode ray tube display unit gives the distance of the a/c from the beacon and the heading of the a/c in relation to the beacon. Troop Carrier Command in the Italian theatre of war had only 16 a/c fitted with Rebecca and these were all in 52 Wing. The equipment, moreover, was only a hurriedly made "mock-up" prepared in America by modifing units of other types of R.D.F. gear. Its range was poor owing to lack of power in the transmitter. In the weeks immediately prior to the mission 28 personnel of 52 Wing were trained as Rebecca operators by sergeants of 38 Wing, R.A.F. For the mission itself it was decided to use the B-D frequency channels since the Rebecca transmitter worked best on the B Frequency.

5G C. W. TRANSMITTER.

All C-47's and C-53's in Troop Carrier Command NAAF are fitted with radio compasses SCR 280 or SCR 269. SCR 280 requires ICW for its operation but SCR 269 will operate on CW. Both sets are tunable from 250-1750 kc and indicate whether the a/c is heading directly towards the transmitter of the signal to which the compass is tuned. SCR 269 also gives for any position of the a/c its heading off the transmitter. These radio compasses are used extensively by all pilots in the United States and are also used in North Africa and Sicily by all a/c of TCC to provide homing facilities to its airfields, an SCR 188 being used as the homing beacon. Recent reports indicate that the radio compasses in the a/c of TCC are very uneven in their performance.

SCR 188 weighs 1200 lbs and is, therefore, too heavy for paratroop work. Various alternatives have been tried and the modified 5G admiralty transmitter which is used by the British Airborne Division for rear link working has proved the most satisfactory so far. It weighs 33 lbs consisting of transmitter, aerial coupling unit and telescope mast antenna, with 34 lbs of battery and can be packed in a kitbag in the same manner as the Eureka beacon. Its output is 4-6 watts, crystal controlled and as modified by Capt. Pike of the 1st O.R.G. XV Army Group, it will operate on frequencies within the range of the radio compass and will put out an ICW signal. Test flights have indicated that the average maximum range for operating the radio compass at 500' altitude is 40 miles. The equipment requires, however, careful adjustment on setting up in order to get maximum power output. The beacon can be keyed for recognition purposes but this is the only security measure against enemy capture and use as a decoy.

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LIGHTS AND FLARES.

A variety of colored lights and flares for lighting DZ's has been tried, the 12 volt recognition lights on a/c being found very effective. In the Giant III operation, however, reliance was placed on iron troughs 3' X 1' in surface area filled with a mixture of sand and petrol. They could be lit on the approach of each Group of a/c by throwing in a match and extinguished by a carboard or metal sheet when the a/c had dropped their loads. Krypton lights which give a single flash visible for 30 miles on each depression of the button switch were also available but were not used on the DZ for signaling to the a/c.

In the "Avalanche" operation it was decided to try the Aldis lamp which gives a very narrow but powerful beam only visible from the a/c at which it is directed.

NAVIGATIONAL AIDS USED.

For operation "Giant III" it was decided to have on the DZ as well as the petrol flares a Eureka operating on B-D frequency and a 5G transmitter on 1690 kcs and a blue Krypton light. Each beacon was allocated a call sign. The pathfinder force was also to take in several handie-talkies (SCR 536) for intercommunications between themselves. Attached in Appendix A is a copy of the SOI issued by 52nd T.C. Wing which shows the arrangements made.

For operation "Avalanche" a 5G transmitter on 1690 kcs and 2 Aldis lamps were to be used on the DZ. The transmitter had a call sign and the Aldis lamps were to flash an agreed signal at the oncoming a/c and then to throw a steady beam vertically upwards as the a/c passed overhead.

REHEARSAL MISSIONS PRIOR TO OPERATIONS GIANT III AND AVALANCHE.

In order to familiarize the pilots of TCC, NAAF with the problems involved in such operations as these and to test out the proposed Navigation Aids a series of rehearsals were carried out in the Sousse-Kairouan area during 25-31 August. The rehearsals actually had in mind another operation which was subsequently cancelled, but the experience gained was still of great value. The most significant of the rehearsals are described below.

a. Full scale rehearsal of 28th August. This rehearsal involved all available a/c in both Wings of TCC, NAAF. A full scale model of the DZ's and LZ's proposed for the actual operations (gliders were also to be used) was laid out at the same distances inland from the coast. The only difference to the actual operation was the difference in magnetic bearings of the routes to be flown. 3 destroyers, a submarine and a launch were arranged in a straight line pointing towards the correct landfall. These craft flashed agreed signals at the approaching a/c and also gave out an ICW signal from their radios for use on the a/c radio compasses.

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The launch was to flash a red light and mark the point on the coast which the a/c should turn to make their final run over the DZ or LZ. The LZ for 51 Wing were marked by a 5G transmitter and colored lights while 52 Wing's DZ were marked with a British Mark II Eureka and coloredlights.

Most pilots saw at least 2 of the 3 lights on the destroyers and some claim to have seen the light on the submarine but no one saw the launch's red light. Many a/c failed to pick up the radio signals from the ships while some of those that did found the signals very poor with a range less than that of the lights.

The 5G transmitter on the LZ of 51 Wing gave wrong indications because there was in the same vicinity a point-topoint HF station working on the same frequency. It may have been due to this that of the 150 a/c of the 51 Wing which took part only 2 passed over the LZ, 17 passed within visual range of it, and the remainder were never even in the vicinity. The lights on the LZ were useless because there were innumberable other lights in the vicinity, mainly car lights on the various roads.

52 Wing at this time consisted of 5 Groups of approximately 30 a/c each. The plan was that the whole Wing should fly in to its DZ in massline-astern formation, reliance being placed entirely on the navigation of the leading a/c. In this practice, however, the Groups became separated. The 3 Groups which were led by Rebecca-fitted a/c found the DZ by its use. They picked up the DZ'S Eureka at 15, 18 and 19 miles and two of the Groups passed directly over the beacon, the third being 60 yards to the left. The two Groups not having Rebecca-fitted a/c had to rely on straight navigation. One passed in the vicinity of DZ, while the other was 1 mile south of it.

b. Resupply Rehearsal of 29th August. On this occasion 10 a/c of 52 Wing, two from each Group practised a resupply mission. A Eureka beacon was assumed set up by the paratroopers requiring resupply and the a/c were to drop down to an altitude of 50' above the Eureka and to push out their bundles, without parachutes, immediately after passing over it. Ther was a high wind gusting at 35 MPH on this particular night, yet 3 a/c succeeded in making a perfect run up, losing height correctly with the ranges given by their Eurekas and passing directly above the beacon. 4 a/c were blown 300 yds to the leeward of the beacon but were otherwise correct, while 2 a/c not using Rebecca were 500 yds away. 1 a/c left its lead ship and failed entirely to find the DZ. Average range of pick up of the Eureka was 10 miles which was hardly enough in the high wind to permit proper course corrections to be made. No lights were shown on the DZ.

c. 52nds Wing's rehearsal of 31st August. This was a full scale rehearsal for all the a/c of 52 Wing but in this case the destroyers were not available. Their presence was simulated by an SCR 188 transmitter on the coast. Navigating by their radio compasses to this transmitter would give the a/c their correct landfall. A pathfinder force was flown in 15 minutes ahead of the main formation to take down and set up a Eureka beacon. This was done, the pathfinderforce being dropped accurately in the centre of

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the DZ. Within 5 minutes the Eureka was working and being riggered by the oncoming a/c. This beacon was picked up by the Rebecca-fitted a/c which led 4 of the Groups at 6, 6, 8, and 11 miles. All a/c picked up the SCR 188 on the coast without difficulty. Some a/c actually dropped troops while others flashed their recognition lamps at the moment when, if they had had paratroopers on board, they would have given the signal to drop. The distances which paratroopers would have been put down were as follows:

314th Group	0-200 yds.
313th Group	1/2 mile to 1 mile left of beacon.
61st Group	Group leader 300 yds away, rest of the Group ragged, overshooting the DZ a distance up to 1 mile.
316th Group	0 for lead ship, others undershotup to 1/2 mile.
Provisional Group.	This Group had no Rebecca-fitted a/c and overshot the DZ by 1/2 mile and 200 yds to left.

If paratroopers had actually been dropped it was estimated that over 90 % would have landed in a rectangle of dimensions 1½ by 2 miles.

OPERATION GIANT III.

Shortly after dusk on 13th September, the 3 pathfinder a/c containing 50 paratroopers took off from Agrigento airfield in Sicily. The leading a/c of this element was piloted by Lt. Col. Crouch, A-3 of 52 Wing, and contained the leader of the pathfinder force, Lt. Col. Freeman with paratroopers ready to take down a Eureka beacon, a 5G transmitter and a Krypton lamp. The third a/c contained local personnel to protect the DZ if attacked while the main force was landing, and the second a/c carried a further Eureka and Krypton lamp. Each a/c also carried a handie-talkie (SCR 536) for intercommunication between the 3 sticks when they had landed. A high proportion of the force had been trained to set up and operate the Eureka and the 5G in the darkness. The force was briefed that no matter what happened it had to get a Eureka beacon set up and if possible, the 5G transmitter as well.

Under the skillful leadership of Lt. Col. Crouch, the 3 a/c flew up the west coast of Italy and crossed over the peninsula between the Golfo di Salerno and the Golfo de Policasto along the valley of the Alento river. Just as the pilot remarked that they should be over the DZ a flash lamp was seen signalling immediately below and a few seconds later a Verey pistol was fired. As the 1st troops jumped the petrol flares were lighted, finally removing any doubt as to whether the correct DZ had been found. The 1st stick landed right among the petrol flares and had its Eureka operating in 3 minutes. The second Eureka landed on the far side of a ditch and by the time it reached the DZ the other was going strong.

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It acted, therefore, as a standby. The straps by which the kitbag containing the SG transmitter was attached to the paratrooper's leg tore loose from the bag itself when the paratrooper's chute opened with a violent jerk. The paratrooper was unable to prevent the transmitter crashing to the ground and smashing beyond repair. The attempts made by the main force to tune their radio compasses to a beacon on 1690 kc were, therefore, doomed to failure.

The Eureka beacon that was set up was being triggered immediately by the oncoming a/c of the main force and it continued in uninterupted operation for the next 3 hours. The a/c came in from all directions and it seemed to the ground observers evident that they were homing on to the Eureka. No enemy opposition by flak or fighters was met during the mission but enemy a/c were heard in the vicinity, neccessitating the extinguishing of the petrol flares after each Group had passed over in order not to give too much away. Lt. Col. Freeman stated that 1 enemy a/c circled overhead for upwards of 1/2 hour and seemed to be trying to find the frequency of the Eureka-Rebecca. Every so often it appeared to tune a transmitter to the Eureka receiver frequency, thus triggering the set. The odds against the frequencies of Rebecca-Eureka being found by this method are, however, enormous. The detailed reports of each Rebecca fitted ship which flew on this mission are given in Appendix A. It will be seen that 9 Rebeccas out of 11 gave satisfactory results with ranges from 7 to 13 miles.

The bulk of the troops were dropped within 200 yards of the Eureka and all dropped within 1 mile except B company of the 1st Battalion which was dropped 8-10 miles southeast of the DZ. This company succeeded in rejoining the main force the following day. One man only was injured in the drop. In 60 minutes the paratroopers (800 in all) had collected on a Krypton light of the appropriate color and the DZ had been cleared. The same night then troops were packed on lorries and taken to a position by Albanello. In 24 hours they had a strongly fortified position prepared and confidently awaited any attempt of the Germans to break through. 4 days later the Regiment made a night attack on Altavilla. After a hard fight in which 2 of the staff officers were killed and Lt. Col. Freeman wounded it succeeded in capturing and holding this town.

<u>14th-15th September</u>.

The departure of the pathfinder force of the 505th Regiment was as uneventful as that of the 504th. Lt. Col. Crouch was again the lead pilot and Lt. Col Billingsly led the pathfinder force of 29 men. The same number of navigational aids were carried as on the previous night and were distributed in the same way between the two leading a/c. The same DZ was again found without difficulty the petrol flares being lit as the 1st a/c came over. Troops of the 504th also set up on of the Eureka beacons on the DZ to assist the pathfinder force but it was not used because none of the pathfinder a/c was fitted with Rebecca.

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The pathfinder force with the 2 Eurekas and the 5G transmitter all landed safely on the DZ and one Eureka was in operation within 5 minutes of arrival. Lt. Col. Billingsly then instructed the other Eureka team by means of the SCR 536 with which the force was also equipped, not to operate. Although the 5G transmitter landed intact it was not set up because its frequency was the same as that taken in by the 509th on the same night. The krypton lights were also not used. Details of the performance of the Rebecca fitted a/c in the main force which homed on the Eureka are given in Appendix A from which it will be seen that 9 out of the 11 Rebecca-fitted a/c picked up the beacon successfully with ranges from 6-17 miles.

The bulk of the troops were again dropped within 200 yards of the beacon the furthest troops being less than a mile and a half away except for 2 a/c which dropped their troops 20 miles to the north of the DZ. Within 45 minutes of the last a/c passing over the DZ the 2100 troops were loaded into the 60 trucks which had been made available and were on their way to protect the southern flank of the VI corps, one battalion being stationed in front of Agripoli, one by Oglianto and one by Capaccio.

The following day motor patrols of the Regiment moved south as far as Sapri where they met forward units of the VIIIth Army which had advanced up the coast. The relieved beach engineers were able to return to their unloading, which had fallen 3 days behind schedule while the hard pressed 45th Division was withdrawn from the front line to reform. The crisis in the position of the V th Army had been finally averted and consolidation and extension of the beachhead could now proceed.

OPERATION AVALANCHE. 14th-15th September.

Meanwhile the experience of the 509th Regiment at Avellino was very different. In this case the pathfinder force under Lt. Perry was carried in one a/c only. It took with it one 5G transmitter and two Aldis lamps. The force had only had a few minutes instruction in the elaborate process of setting up and tuning the 5G. The pathfinder a/c found its way without difficulty along the Coast of Italy to the Salerno plain, chose the correct gap in the mountains and dropped its troops close to the DZ.

Despite the close proximity of large enemy forces, several sticks being fired on by small arms as they came down, the pathfinder force was able to set up the 5G transmitter and to signal with Aldis lamps to the oncoming a/c. However, of the 39 a/c of 51 Wing which brought in the main force only two, one of which was the leading a/c, reported receiving the 5G transmitter on their radio compasses and they only picked it up at 5 miles and found the indications uncertain.

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This low range may have been due to the high hills all around the DZ and possibly also to the inexperience of the ground operators. The transmitter was destroyed before the troops finally left the DZ. 8 a/c only saw the Aldis signal lamp but those that did found it an excellent guide. At least 2 squadrons mistook the entry into the mountains above Salerno and had to return to the coast to pick up the trail again. Considerable difficulty was also experienced, despite the moonlight, in finding the Side valley which contained the DZ. These navigational difficulties together with the fact that the heights at which the troops were dropped, owing to the presence of the mountains, varied between 3000 and 5000 feet account for the wide dispersal of the troops on the ground. The bulk of the troops were distributed over an area between 5 and 10 miles around the DZ while some sticks were dropped as far away as Bagdolia. They landed in tank farms, ammunitions dumps, transport parks and in the main, therefore, had no opportunity to form up into units of sufficient size to do effective damage. The objectives of the paratroopers were not achieved and ten days after the drop only 170 officers and men had found their way back to the Allied lines. It must be assumed, therefore, that the bulk of the force of 700 were either killed or taken prisioner.

STATE OF EQUIPMENT AFTER THE DROP.

Four Eurekas and one 5G transmitter were returned to Sicily after the operation. One 5G transmitter was completely destroyed during the drop and one had to be destroyed. Appendix B is a report on their state when returned.

CONCLUSIONS REGARDING THE NAVIGATIONAL AIDS USED.

GIANT III.

1. The dropping of a pathfinder force was a success.
2. The route chosen for the formation made navigation easy in the bright moonlight.
3. The DZ being in frienly hands could be so brightly lit that no one should have had any difficulty in navigating to the DZ without other aids.
4. Rebecca-Eureka was not really necessary but it was welcomed by the pilots flying with it because it gave them confidence that the correct DZ had been found and aided in correct tactical approach by giving accurate ranges.
5. The average range of pick-up of the Eureka was 9 miles. This is poor compared with ranges obtained on test but is probably due to the low power of the transmitter in the a/c Rebecca equipment.
6. Some parts of the Eureka are not sturdy enough to withstand the shock of landing even when carefully packed.
7. The 5G transmitter can be dropped successfully but has not yet been given an adequate operational trial as a radio compass beacon.

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AVALANCHE.

1. The pathfinder force helped navigation to the LZ appreciably but was not successful in concentrating even a small proportion of the force on the DZ.
2. The 5G transmitter did not operate successfully but in view of the lack of experience of operators and the terrain the test can not be regarded as conclusive.
3. Some success was obtained with the Aldis lamp.

RECOMMENDATIONS ON NAVIGATIONAL AIDS TO PARATROOP DROPPING.

1. The technique of a pathfinder force in Airborne operations to take in the optimum number of navigational aids well before the main force should be adopted. The personnal of the forces should be highly trained to operate the navigational aids in darkness and the pathfinder aircraft should be led by the most expert pilot in D.R. navigation. Any aids to navigation which can be operated in the pathfinder aircraft, such as H2S, should be used if available. Such a pathfinder force might well be dropped a night or two before the main operation.
2. The navigational aids taken in should depend upon the location of the DZ and the probable difficulty in approach. A DZ which is easily found by the coastline shape needs fewer aids than one which is right inland.
3. At least 2 sets of each type of equipment should be taken by the pathfinder force and should be carried in separate ships.
4. Bright lights or flares are the best means of identifying a DZ and when this aid can be used other aids merely provide confirmation.
   They should be used whenever possible, but not if there is any danger of molestation by the enemy before the paratroopers have had time to collect together.
5. The use of the Aldis lamp and other methods of lighting the DZ in ways which are visible from the air but not from the ground should be given detailed examination.
6. Rebecca-Eureka should be used on all operations. Its range indication enables a good tactical approach to be made even when DZ lights have been picked up. In the absence of lights or if lights were confusing its usefulness would be greatly increased, as also it would be if there was an overcast.

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7. All Troop Carrier aircraft should, therefore, be fitted with Rebeccas. The British Mark II version should preferably be used owing to its great transmitter power and push button method of changing frequencies.

8. The British Mark II Eureka should be used until a better model becomes available. The battery box and the aerial tripod should be strengthened in subsequent models and the switches protected.

9. The leg pack method of dropping the beacon should be used, but very careful attention should be paid to the method of packing. Lace-up-kit-bags should be provided.

10. A light weight beacon transmitting MCW to operate the aircrafts' radio compasses should be developed. It should have a range of better than 30 miles and should be readily set up in the dark. The modified 5G transmitter appears to have a good enough range but it is not readily set up in the dark and is of heavy weight for its power output. It has the advantage of being the normal rear link radio set of the British Airborne Divisions.

11. All radio compasses should be checked to ensure good average performance, particularly in the higher frequency ranges.

12. The tactical value of using an SCR 536 for communication between the DZ and the troop carrying a/c should be examined.

13. T.C.C. pilots are not given enough practice in dealing with the navigational problems involved in night paratroop dropping. Rehearsal or the lines of those described above should be constantly carried out. Various combinations of navigational aids on the DZ and for marking the way to it should be tried and on the results of the rehearsals the pilots most suitable for leading Groups and Squadrons should be chosen.

J. W. VERNON
F/Lt. (Honorary)
O.R.S., A-3, Hq, NAAF.

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APPENDIX A

REPORT ON USE OF RADAR IN GIANT III OPERATIONS OF 13-14th and 14th-15th SEPTEMBER BY THE GROUPS OF THE 52ND TROOP CARRIER WING.

13th-14th September.

61st Group.

41 a/c of this Group took part in the mission and all a/c claim to have dropped their troops on the DZ except one a/c from which the troops dropped 1 minute after the green light was given.

5 Rebecca-fitted ships flew on this mission the Group and each of the 4 Squadrons being led by one such ship. 53rd Sqdn. made no attempt to use its Rebecca, while the 59th Squadron had no trained operator on board. Of the other three Rebecca-fitted ships the Group lead ship picked up the signal at 7 miles and the two Squadron lead ships at 8 miles. The lights on the DZ were switched on just before the lead ship arrived and all aircraft gave the signal to drop when over the lights, the Rebecca signals being used to give range from the DZ and confirmation that the DZ had been reached. Those Squadrons which had no Rebecca guidance had no difficulty in finding the DZ, since they knew their position along the coast line and saw the lights on the DZ when a considerable distance away.

313th Group.

36 a/c took part in the mission from this Group and 35 a/c claim to have dropped their troops on the DZ, the tire of the remaining a/c burst just before take-off. The whole Group dropped as a formation.

All 4 Squadrons of the Group were led by Rebecca-fitted ships. The lead ship of the Group picked up the Eureka on the DZ when 18 miles away but could not get a definite bearing from the blips until 7 miles away because of violent squittering. This may have been due to the beacon responding to the transmitter of another Rebecca and the transmitter on this aircraft only succeeding in triggering the beacon at 7 miles. The other three Rebecca-fitted ships obtained ranges of 7, 11, 13 miles at 1000 feet. In all cases signal was of a good shape and easily read.

314th Group.

6 a/c of this Group took part in the mission but the Rebecca-fitte d a/c was not one of them because it was grounded on the departure airdromes by an electrical failure. The lead ship thought it dropped the troops over the DZ but the other 4 ships which dropped at the same time thought they were 2-5 miles to the SSE of the DZ. One ship which lost the formation saw the T lights on the DZ and dropped its troops on them.

316th Group.

Did not partake in this Mission.

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14-15th September.

61st Group.

35 a/c of this Group took part in the Mission of 14-15th September. 5 Rebecca fitted ships flew with the Group, one was the Group lead ship and the other 4 being the Squadron lead ships. The ship in 15 Squadron failed to get any response on its Rebecca. The fault has not yet been traced. 53rd Squadron again made no attempt to use its Rebecca, while the other two Squadrons and the Group lead ship had ranges of 8, 9, and 10 miles respectively. The lights on the DZ were again very easily seen and the troops were dropped on the, the Rebecca signals used for confirmation.

314th Group.

18 a/c of this Group took part, 9 of which (47th Sqdn) flew with the 314th Group. Both Squadrons claim to have dropped their troops on the DZ.

The lead ship of both Squadrons was fitted with Rebecca. The 49th Sqdn picked up the DZ Eureka at 11 miles, 1000 feet, and came in on it until it saw the lights on which it dropped its troops. The 47th Squadron followed the 314th Group out but realized by the contours of the coastline that the ships it was following had missed the DZ. The Squadron leader, therefore, made a right hand turn and approached the DZ. At 6 miles this Rebecca picked up the DZ Eureka but the corrections to course given by the operator was contrary to these which the pilot thought right. The lights on the DZ when picked up proved the pilot to be correct. The operator of the Rebecca may have become confused and called for a right turn corrections when he should have called for a left on in the a/c the receiving aerial of the Rebecca may have become crossed.

314th Group.

35 a/c of this Group took part in the Mission and 32 a/c claim to have dropped their troops on the DZ although some a/c missed the DZ on their first pass. The troops in another a/c did not jump until 1 mile after the green light. The remaining two a/c - the leader of the 61st Sqdn and one of his wing ships - failed entirely to find the DZ and brought their troops back to Sicily.

The Group lead ship and the lead ship of two other Squadrons were fitted with Rebecca, the remaining Squadron had no such aid. The lead Squadron picked up the Eureka on the DZ at 17 miles and the 62nd Squadron at 13 miles, height 800'. The signal picked up by the 62nd Squadron squittered badly. The lights on the DZ were bright. in one case being picked up 17 miles away and all Squadrons had no difficulty in identifying the DZ and dropped their troops in the correct place, the Rebecca signals were however, welcomed when available to improve the tactical approach and give confirmation that the correct DZ had been found. The Rebecca on the leadship of 61st Squadron did not pick up the Eureka at all. It seems that there was a mistake in navigation and the aircraft did not come with range.

316th Group.

36 a/c of this Group took part in this Mission. 32 a/c claim

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to have followed the Group leader in and to have dropped their troops over the DZ. 1 a/c which lost the main formation claims to have droped in the close vicinity of the DZ, but 4 or 5 minutes late. Remaining 3 a/c brought their troops back. Of these latter 3 a/c, 2 failed to find the DZ entirely while the 3rd depressed the wrong switch over the DZ so that the green lightwas not given and on the 2nd pass over the DZ an attempt at aural signals also failed.

Two Rebecca ships only flaw on this missionare being the Group leaders ship and the other in the lead of one of the Squadrons. The lead ship picked up the Eureka on the DZ at 7 miles while the other picked it up at 8 miles at heights of 6 to 8 hundred feet. The pilot of the lead ship corrected his course on the instruction of the Rebecca operator and also used the ranges read out by the operator to adjust his height for the correct tactical approach.

The lights on the DZ were very bright and parachutes were also seen on Ground. The Rebecca operator gave the signal to drop 200 yds short of the center of the lighted DZ, but the signal to the troops to drop was given by the pilot when actually over the DZ lights.

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APPENDIX B.

EUREKA Beacons used on the 13th and 14th of September 1943, in the Salerno landings were returned in the following condition:-

Serial No. 3664.

(a) Main switch on power pack broken.

(b) T/R case dented and buckled.

(c) TX Frequency on C,D, E from I to 2 Mcs off tune, due to distortion of top plate unit.

(d) Aerial damaged.

(e) Cast lug on aerial tripod broken.

(f) Anode lead to Rx diode (B3) disconnected.

(g) Earpiece missing.

Serial No. 3673.

(a) Tx frequency selector knob broken.

(b) Main switch on power unit broken.

(c) Sqitter on all frequencies.

(d) Aerial bent and buckled.

(e) Tripod lug broken.

(f) Earpiece and power lead missing.

These two beacons were dropped onthe 13th Sept. and were packed in small kit bags, originally intended for use with Krypton ligts, which did not allow much space for shock absorbing packing material.

Beacons used on the 14th Sept.

Serial No. 3679.

Receiver frequency selector switch knob broken.

Serial No 3658.

Main switch on power unit broken.

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In this case two larger kit bags were used, one of them a lace-up type. More packing material was used, with consequent prevention of damage. All Eureka's were packed personally by Lt. Knoar, 505th Bat. 82nd Airborne Div, U. S. ARMY who also dropped with, and set up one beacon during the operation. The "NIFE" accumulators also suffered damage, one of themb eing rendered completely unserviceable, the bottom of one wooden box became detached, and another box was split open on impact.

/s/ J. G. Baggs, F/O
J. G. Baggs
Signals R.D.F. Officer,
38 Wing (det), R.A.F.

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BIGOT ANVIL

HEADQUARTERS SEVENTH ARMY
APO 758

[redacted] SECRET
Auth: CG 7 Army
Initials:
Date: 29 July 44

AG 370-C

29 July 1944

FO #1 (ANVIL)

Maps: GSGS 2738 FRANCE 1/250,000, Sheets 37, 38, 42, 43.

1. a. Annex #2 (Intelligence)

b. (1) Seventh Army, supported by Western Naval Task Force and XII Tactical Air Command, will assault the South coast of FRANCE, secure a beachhead East of TOULON and then assault and capture TOULON.

(2) The Naval Commander, Western Task Force, will command the entire seaborne expedition from the time of sailing until the ground forces are firmly established ashore; thereafter command of ground operations passes to the Commanding General, Seventh Army.

(3) XII Tactical Air Command will support the operation. Additional air support by MATAF will be available to Commanding General, XII Tactical Air Command, on request.

2. a. Seventh Army will make a daylight seaborne and airborne assault on area shown (Annex #1) to seize and secure a beachhead for the assault and capture of TOULON.

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Adjutant General's Office
War Department
Washington 25, D. C.

b. "D" day, "H" hour to be announced later.

c. Troops: See Annex #3.

d. Shipping: See Annex #4.

3. See Annex #1 (Operations Overlay).

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EO 11652

a. KODAK FORCE (VI US Corps):

Consisting of: ALPHA FORCE (3rd Inf Div reinf)
DELTA FORCE (45th Inf Div reinf)
CAMEL FORCE (36th Inf Div reinf)
Combat Command SUDRE (1st Fr Armd Div reinf)

(1) Make a daylight assault at "H" hour on "D" day on beaches between CAPE CAVALAIRE and AGAY.

(2) Destroy enemy beach defenses, advance rapidly inland and contact RUGBY and ROMEO Forces.

(3) RUGBY Force attached KODAK Force when contact is made.

(4) ROMEO Force attached KODAK Force at "H" hour.

(5) Capture LE MUY on "D" day.

(6) Extend the beachhead rapidly to the Blue Line (Annex #1): THEOULE SUR MER - BAGNOLS EN FORET - TRANS EN PROVENCE - LE CANNET DES MAURES - COLLOBRIERES - CAPE DE LEOUBE. After reorganization, continue advance to the West and Northwest.

(7) Secure airfield sites in the ARGENS Valley (See Operations Instructions No. 1), between FREJUS and LE LUC from ground-observed enemy Artillery fire.

(8) Protect the right flank of the Army.

(9) Be prepared to release Combat Command SUDRE (1st French Armd Div), RUGBY Force, and ROMEO Force to Army control on Army order.

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(10) After passage of lines by GARBO Force (see para 3 e), continue the advance within zone.

(11) Boundary between KODAK Force and GARBO Force: COLLOBRIERES (to GARBO Force) - CARNOULES (to KODAK Force) - FORCALQUEIRET (to GARBO Force) - TOURVES (to KODAK Force). Road: CARNOULES - ST ANASTASIE - FORCALQUEIRET - BRIGNOLES, all to KODAK Force.

(12) Beach groups will be released from attachment to VI Corps and will be placed in support of VI Corps at "H" Hour.

b. RUGBY FORCE (1st Airborne Task Force):

(1) Land in LE MUY area starting about first light, "D" day.

(2) Prevent movement of enemy forces into the assault area from the direction of LE MUY and LE LUC.

(3) Attached to KODAK Force when contacted by KODAK Force.

(4) Assemble glider pilots in vicinity of Force CP for evacuation from assault area. Notify Seventh Army when pilots are assembled.

c. SITKA FORCE (1st Special Service Force):

(1) Assault the Islands of PORT CROS and LEVANT under cover of darkness the night of D - 1 / D day.

(2) Destroy enemy coastal battery on East end of LEVANT before 0600 "D" day.

(3) Destroy all enemy defenses on the islands prior to "H" hour.

(4) Turn over garrison of the islands to French garrison force on or about D + 2, evacuate prisoners to vicinity of Beach 259, and withdraw to the mainland under Army control.

(5) See Annex #13. (Special Instructions for SITKA and ROMEO Forces.)

d. ROMEO FORCE (French Groupe de Commandos):

(1) Land in the vicinity of CAPE NEGRE under cover of darkness on the night of D - 1 / D day.

(2) Destroy all enemy coastal defenses on CAPE NEGRE.

(3) Block the coastal highway vicinity of CAPE NEGRE.

(4) Seize and hold high ground in vicinity of BIGCARRE (3 km North of CAPE NEGRE.)

(5) Attached to KODAK Force at "H" hour.

(6) See Annex #13 (Special Instructions for SITKA and ROMEO Forces.)

e. GARBO FORCE (II French Corps):

(1) Debark rapidly over secure beaches in the ST TROPEZ - CAVALAIRE area upon arrival in the transport area.

(2) Assemble and organize in the area shown (see Annex #1).

(3) Upon Army order, be prepared to pass through elements of the KODAK Force in zone, and attack TOULON.

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(4) Maintain contact with KODAK Force on the right.

(5) After capture of TOULON, be prepared to continue the advance in zone to the West and Northwest.

f. ARMY RESERVE:

(1) Following units revert to Army control on Army order:

(a) RUGBY Force.

(b) ROMEO Force.

(c) SITKA Force.

(d) Combat Command SUDRE (1st Fr Armd Div)

g. I FRENCH CORPS:

(1) Be prepared to embark when ordered so as to arrive in the target area on the following schedule:

2nd (Fr) Moroccan Inf Div (2 DIM) (reinf) from NAPLES by D + 20.

4th (Fr) Mountain Div (4 DMM) (reinf) from NAPLES by D + 30.

5th (Fr) Armored Div (5 DB) (reinf) from ORAN by D + 40.

h. ARMY TROOPS:

(1) (Annex #3.) Units will land over ALPHA, DELTA, and CAMEL beaches as indicated in Annex #4.

i. WESTERN NAVAL TASK FORCE:

(1) Naval Gunfire Support Plan (Annex #12).

j. MEDITERRANEAN ALLIED TACTICAL AIR FORCES:

(1) D - 1 and D day Bombardment (Annex #5).

x. (1) A demolition party, French Naval Assault Groupe, will land in the vicinity of POINTE DES TRAYAS on the night of D - 1 / D day with the mission of executing demolitions on the CANNES - ST RAPHAEL and CANNES - FREJUS roads. This party will then fall back on Army North flank. Further details will be included in operations instructions.

(2) All commanders will insure that prior to "H" hour, "D" day, all troops receive sufficient information of the operation to enable them to execute their duties effectively. The minimum essential instruction only will be issued prior to 4 hours after last touching shore (See Letter, Hq Seventh Army, 15 July 44, "Security of Operation "ANVIL" (Mounting)".)

(3) All watches will be synchronized with ships time prior to debarkation.

(4) All personnel will be cautioned that American and British parachute and glider troops will be operating inland from the beaches. A glider shuttle is scheduled in the area at about 0800 and a subsequent shuttle at 1800 " D" day. All Troop Carrier Aircraft will be painted with BLACK and WHITE stripes on wings and fuselage. Gliders will not be painted with these BLACK and WHITE stripes. (See Operations Instructions #5).

(5) Yellow smoke identifies friendly ground troops to friendly aircraft.

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(6) Prior to final embarkation for the target area, CG GARBO Force (II French Corps) will establish necessary liaison with CG KODAK Force (VI US Corps) to effect coordination of the landing, assembly, and organization of GARBO Force and passage of VI Corps lines. (See Operations Instructions #2.)

4. See Adm Order #1.

5. a. Annex #8 (Signal).

b. Succession of command: Ashore: Major General A. M. PATCH
Major General L. K. TRUSCOTT
Major General J. E. DAHLQUIST

At Sea: In case the USS CATOCTIN is rendered inoperative, command will be assumed by the Deputy Army Commander, Brig. Gen. A. A. WHITE, aboard the SS HENRICO, until command channels with all headquarters are re-established.

c. Command Posts

	Afloat	Ashore	Axis
(1) Seventh Army	SS HENRICO	ST TROPEZ	ST TROPEZ - TOULON
(Advance CP)	USS CATOCTIN		
(2) KODAK Force	USS CATOCTIN	ST MAXIME	LE LUC - BRIGNOLES
(Alternate)	BARNETT		
(3) GARBO Force	BATORY	COGOLIN	LA LONDE - TOULON

PATCH,
Commanding.

WHITE,
C/S.

OFFICIAL: Guthrie
GUTHRIE,
G-3.

ANNEXES:

#1 - Operations Overlay
#2 - Intelligence Plan
#3 - Troop List
#4 - Convoy Plan - To be issued separately
#5 - Air Support Plan - To be issued separately
#6 - Signal Orders
#7 - Antiaircraft Plan - Published as Corrected Annex, 25 July, to "ANVIL" Outline Plan, 13 July.
#8 - Engineer Plan - Published as Annex #11 to "ANVIL" Outline Plan, 13 July.
#9 --Beach Operations Plan
#10 - Chemical Plan - To be issued separately.
#11 - Artillery Plan - To be issued separately.
#12 - Naval Gunfire Support Plan - To be issued separately.
#13 - Special Instructions, SITKA and ROMEO Forces - To be issued separately.

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Engr	21
CWS	22
Sig	23 - 24
Beach Control Group	25
"A" Force	26
VI Corps	27 - 32
Army "B"	33 - 38
French Mission	39 - 40
1st A/B Task Force	41
1st S.S.F.	42
French Grp Commandos	43
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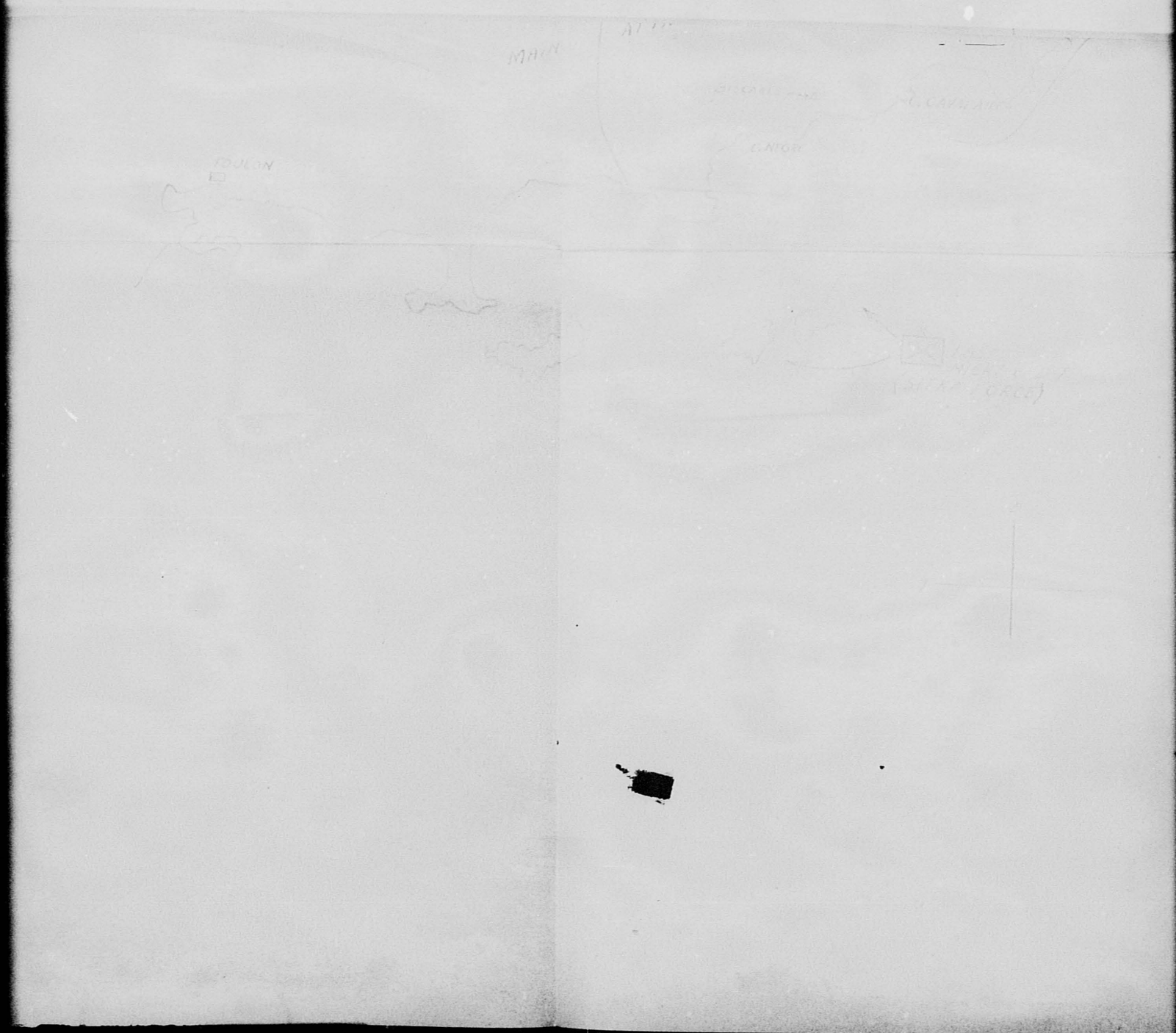
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HQ SEVENTH ARMY
APO 758, U.S. ARMY
26 July 1944

ADMINISTRATIVE ORDER NO. 1 TO ACCOMPANY FIELD ORDER NO. 1

MAPS - GSGS 2738 FRANCE 1/250,000 - Sheets 37, 38, 42, 43.

REFERENCES - 1. ADMINISTRATIVE INSTRUCTIONS, FORCE 163, DATED 20 JUNE 1944, WITH ANNEXES 1 TO 13.

2. ANVIL OUTLINE PLAN, DATED 13 JULY 1944.

1. SUPPLY.

a. Supply procedure - See paragraph 7, Administrative Instructions #1, dated 20 June 1944.

b. KODAK FORCE Commander is responsible that locations of beach dump sites (all classes of supply) are made known to GARBO FORCE Commander. GARBO FORCE will draw supplies from nearest available dumps.

c. SITKA FORCE - Three days' supply and 3 U/F will be taken by the Force, thereafter supplied from ALPHA Beach. Class V aerial resupply from CORSICA upon call. KODAK FORCE Commander is responsible for resupply effective D / 2 until SITKA FORCE is removed to mainland.

d. ROMEO FORCE - Three days' supply and 3 U/F will be taken by the Force. Automatic Class V aerial resupply from CORSICA of one U/F at 1100 hours D-Day. Task Force making contact with ROMEO FORCE will be responsible for supply until SEVENTH ARMY can effect direct supply. ROMEO FORCE Commander will make his needs known to relieving Force.

e. RUGBY FORCE (Airborne) - Seven days' supply and 5 U/F laid down at airfields for supply by air until contact is made with other Task Forces who will be responsible for supply until SEVENTH ARMY can effect direct supply. Commanders of Airborne units will contact relieving Force and make known their requirements. Seaborne ammunition resupply of British 2nd Independent Parachute Brigade will be landed over CAMEL Beach. Commanding General, First Airborne Task Force, will be responsible for resupply of the Task Force by air. Requirements of the First Airborne Task Force will have priority over requests for emergency supply by air received from other units.

2. EVACUATION.

a. Casualties - See paragraph 10a (1), Administrative Instructions #1, 20 June 1944, and Annex #6 thereto.

(1) SITKA FORCE - By landing craft to mother ships in initial stages - then by landing craft to ALPHA Beach.

(2) ROMEO FORCE - Evacuation by first ground units to make contact.

(3) RUGBY FORCE (Airborne) - Evacuation by first ground units to make contact.

(4) D to D / 6 inclusive, no attempt will be made in the target area to separate American, British, and French casualties.

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(5) D / 7 and thereafter, British casualties will be evacuated through the same channels as American casualties.

(6) D / 7 and thereafter, all French casualties will be evacuated to North Africa by hospital ships. Except in an emergency, British and American casualties will not be placed on hospital ships going to North Africa.

b. Burial.

(1) By units, assisted by available Graves Registration personnel. See Annex #3 to Administrative Instructions #1, dated 20 June 1944.

(2) Cemeteries - Locations selected by Task Force Commanders.

c. Salvage and Captured Material - Collection and movement to dumps in rear areas is responsibility of Task Force and Sub-Task Force commanders. Vigorous measures will be taken by all commanders to insure maximum salvage of parachutes and air drop equipment. Captured Materiel will be segregated at all points for examination by intelligence personnel, then evacuated to Ordnance ammunition points by returning ammunition transport. In the event of the capture of chemical ammunition, a CWS officer will be contacted and advised as to location of the chemical ammunition.

d. Prisoners of War.

(1) Collecting Points and Enclosures - Initially, as determined by Task Force Commanders.

(2) Evacuation.

a. By units to beach cages.

(1) RUGBY and ROMEO FORCES - By first ground units to make contact.

(2) SITKA FORCE - To ALPHA Beach when craft are made available. KODAK FORCE Commander is responsible for evacuation of POW to mainland until SEVENTH ARMY assumes control.

(3) From beaches to ITALY and NORTH AFRICA by returning transport.

(4) Corps and separate units will evacuate to beach enclosures upon establishment.

(5) Upon SEVENTH ARMY assuming control, the collection and processing of prisoners is the responsibility of Seventh Army Provost Marshal, See Administrative Instructions #3.

3. TRAFFIC - As directed by Task Force Commanders in their respective areas. Beach roads will be given priority. Additional traffic circulation and control instructions will be published later.

4. SERVICE TROOPS & TRAINS - See Annex #3 to FO #1 (ANVIL).

5. PERSONNEL.

a. Stragglers - Straggler lines and collecting points as determined by Task Force Commanders.

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Adm Order #1 (Cont'd)

b. Surplus Baggage - Stored on Near Shore.

c. Mail.- First letter mail is expected by D / 6, and package mail by D / 15.

d. Shelter - As prescribed by Task Force Commander.

e. G-1 Reports and Replacements - See Annex #10 to Adminstrative Instructions #1, and Administrative Instructions #3.

f. Uniform - The woolen uniform with full field equipment is prescribed.

6. MISCELLANEOUS.

a. SEVENTH ARMY Near Shore Control Headquarters - NAPLES.

b. Finance Plan - See Annex #11 to Administrative Instructions #1.

c. Fiscal Policy & Procurement Procedure - See Annex #13 to Administrative Instructions #1.

d. Reports - See Annex #12 to Administrative Instructions #1.

e. Property Accountability - Current theater directives.

f. Labor - By troops initially. Local sources will be developed. Rates of pay, labor regulations, etc., as published in Administrative Instructions #2.

PATCH,
Cmdg.

OFFICIAL:

HARVEY,
G-4.

DISTRIBUTION "A" PLUS

10 cys ARMEE "B"
10 cys VI Corps
10 cys AFHQ
10 cys COMNAVNAW
10 cys MATAF
5 cys BEACH CONTROL GROUP
5 cys 1ST AIRBORNE TASK FORCE
2 cys GROUPE DE COMMANDOS
2 cys 1ST SPECIAL SERVICE FORCE
5 cys NEAR SHORE CONTROL
50 cys G-4

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HEADQUARTERS SEVENTH ARMY
APO #758

: T[redacted] SECRET :
: Auth: CG, 7th Army :
: Init: 3 M H :
: Date: 31 July 1944 :

AG 370 - C

31 July 1944
AAM/JSG/car

SUBJECT: Annexes to FO No. 1 ANVIL.

TO : See Distribution.

1. Submitted herewith are the following annexes to Field Order No. 1, ANVIL, dated 29 July 1944:

Annex No 4 - Convoy Plan
Annex No 10 - Chemical Plan
Annex No 11 - Artillery Plan
Annex No 12 - Naval Gunfire Support Plan

2. The following annexes will be issued later:

Annex No 5 - Air Support Plan
Annex No 13 - Special Instructions to the SITKA and ROMEO Forces.

By command of MAJOR GENERAL PATCH:

A. A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL: John S. Guthrie
JOHN S. GUTHRIE,
Colonel, GSC,
A. C. of S., G-3.

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CWS	22
Sig	23 - 24
Beach Control Grp	25
"A" Force	26
VI Corps	27 - 32
Army "B"	33 - 38
French Mission	39 - 40
1st A/B Task Force	41
1st SSF	42
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HEADQUARTERS SEVENTH ARMY
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ANNEX NO. 2
To F.O. NO. 1 ANVIL

INTELLIGENCE ANNEX

Maps : See OPN Map (Annex I) to FO No. 1.

1. Summary of the enemy situation.

a. See G-2 Estimate of the Enemy Situation No. 1, dated 15 July 1944.

b. See G-2 Information Bulletin No. 1, dated 16 July 1944.

c. See G-2 Information Bulletin No. 2, dated 30 July 1944.

d. See collation map of defenses, printed 1 August 1944, this headquarters.

2. Essential Elements of Information.

a. See Annex No. 1, to G-2 Outline Plan for Operation ANVIL, this headquarters, 27 April 1944.

3. Reconnaissance and Photographic Missions.

a. See Annex No. 2, to G-2 Outline Plan, this headquarters, 14 June 1944.

b. Tactical Reconnaissance.

(1) Corps and independent Army units will submit daily requests to A. C. of S., G-2, Army, for Tactical Reconnaissance missions and for observation by fighter aircraft for artillery adjustment missions at 1900 on the day prior to that on which the mission is to be flown. In addition, Corps and independent Army units may request special missions of Army G-2 at any time if the situation so warrants.

(2) Tactical Reconnaissance broadcast can be heard at the hour and in the frequency indicated in the Army SOI and Corps SOI.

c. Photo Reconnaissance.

(1) Units may receive broadcasts made by P.R.U. radio on the frequency indicated in the Army SOI.

4. Prisoners and Captured Documents.

a. See Annex No. 4, to G-2 Outline Plan, this headquarters, 15 February 1944.

b. See Training Memorandum, Prisoners of War, Captured Documents and Materiel, this headquarters, 13 July 1944.

5. Maps.

a. See Annex No. 5, to G-2 Outline Plan, this headquarters, 17 April 1944.

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b. For aerial photos and mosaics, see Annex No. 2 to G-2 Outline Plan, this headquarters, 14 June 1944. Annotated mosaics at 1:10,000 of assault beaches and mosaics of entire area at 1:25,000 will be furnished interested units.

6. Counter Intelligence.

a. See Annex No. 3 to G-2 Outline Plan, this headquarters, 14 June 1944.

b. See Amendment No. 1 to Annex No. 3 to G-2 Outline Plan, this headquarters, 19 July 1944.

7. Auxiliary Agencies.

a. See Annex No. 4 to G-2 Outline Plan, this headquarters, 15 February 1944.

8. Reports.

a. See Annex No. 1, to G-2 Outline Plan, this headquarters, 27 April 1944.

b. See Amendment No. 1 to Annex No. 3 to G-2 Outline Plan, this headquarters, 19 July 1944.

By command of MAJOR GENERAL PATCH:

A. A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:

William W Quinn

WILLIAM W. QUINN,
Colonel, G. S. C.,
A. C. of S., G-2.

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BIGOT - ANVIL

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: T O P S E C R E T :
: Auth: CG, 7th ARMY :
: Init: [illegible] :
: Date: 31 July 1944 :

HEADQUARTERS SEVENTH ARMY 31 July 1944
APO 758 US ARMY

Copy No. 100

Ref. No. X-1317A

SUPPLEMENT NO. 1 to Annex No. 2.
To Field Order No. 1, Anvil.

SUPPLEMENT to INTELLIGENCE ANNEX

A. PHOTO INTELLIGENCE.

1. The Photo Reconnaissance Unit in support of Seventh Army will move to the ANVIL area as follows:

a. D Day lift - From NAPLES. Ground echelon and three interpreters with vehicles and supplies for four aircraft (referred to as Advance Flight).

b. D/8 to D/10 - from BORGO, Corsica. The 23rd Photo Reconnaissance Squadron.

c. D/10 from NAPLES. Seventh Army Photo Center.

2. All flying from the date of embarkation of the D-day convoy until the installation of the Advance Flight on ANVIL will be carried out from BORGO. The pilots will be briefed at this airfield. The aircraft after carrying out their mission will land at POMIGLIANO Airport (NAPLES) where the Seventh Army Photo Center will be installed. The processing of photography and interpretation will take place at this location.

3. A radio communications net including Army Headquarters, Corps Headquarters, 23rd Squadron, Borgo, Sardinia, and the Photo Center, POMIGLIANO, is available for the exclusive use of Photo Reconnaissance Unit traffic.

4. Requests for Photo Reconnaissance Unit's missions will be made to Photo Reconnaissance Unit Headquarters Seventh Army. Requests for missions will not be made direct to the Photo Center.

5. The task of Photo Reconnaissance Unit during the movement period will be greatly restricted due to the division of the Photo Reconnaissance Unit into 3 widely separated groups. During this period of time communications are expected to be restricted and an automatic program of missions for the period D-5 to D/5 are therefore planned. As soon as satisfactory communications are established, missions may be requested in the normal manner. The program includes:

a. On D-5, D-3, and D-2, weather permitting, 36" focal length cover of beaches and the immediate surrounding country. Changes noted will be broadcast to Headquarters ships through Naval Signal Net.

b. D day to establishment of the Advance Flight. 10 - 20 mile road strips of main communications over which our troops will advance (See overlay attached). The strips will commence approximately 6 miles in advance of the bombline. The purpose of these missions is to detect demolitions. The results will be broadcast by Photo Center at POMIGLIANO.

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c. In event of the situation becoming stabilized, 24" focal length block cover will be flown on Corps Front. When counter-battery are prepared to give areas from sound ranging, flash spotting, Prisoner of War reports, etc., 36" focal length coverage will be made.

6. The plan as outlined in para. 5 above is based on the possibility of a breakdown in the radio communications.

7. A map (scale 1/500,000) with trace showing code names for all roads up to the RHONE River and 44° North will be issued to Corps P.I. Sections, and the Squadron for ease of reference.

B. TACTICAL RECONNAISSANCE.

1. Pending the establishment of communication channels as outlined in Annex No. 2 (Intelligence) Tactical Reconnaissance missions will be carried out automatically commencing D day.

2. Following are Routes 1, 2, 3, 4, 2A, and 3A for Tactical Reconnaissance missions commencing "D" Day and continuing until instructed to the contrary. This road not covered is shown on the attached overlay.

"1" Nice - La Californie - Villars - Digne - Volonne - Graison - Mezel - Grasse - Nice.

"2" Cannes - Manosque - Aix - Grande Bastide - Cannes.

"3" Cannes - Toulon - Marseille (Return 15 miles inland).

"4" Imperia - Tenda - Demonte - Barcelonnette - Guillaumes - St. Martin - Monaco.

"2A" Cannes - Manosque - Apt - Salon de Provence - Aix - Cannes.

"3A" Cannes - Toulon - Brignoles - Grande Bastide - Cannes.

3. Twenty-two missions are planned for each day commencing on D-day. The mission number, time of take off, route and call sign are listed below:

MISSION	TAKE OFF	ROUTE	CALL SIGN	REMARKS
1	0530	3	Brutus Red	
2	0615	2	Trustee Red	
3	0630	1	Cameo Red	
4	0730	3	Brutus Blue	
5	0815	2	Brutus Yellow	
6	0845	1	Cameo Blue	
7	0930	2A	Brutus Red	
8	1015	3A	Rebel Red	
9	1045	1	Rebel Blue	
10	1130	2	Trustee Blue	
11	1215	3	Brutus Blue	
12	1245	1	Cameo Yellow	
13	1300	4	Cameo Red	

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[redacted] SECRET BIGOT - ANVIL

MISSION	TAKE OFF	ROUTE	CALL SION	REMARKS
14	1330	3	Brutus Yellow	
15	1415	1	Brutus Red	
16	1445	2A	Brutus Blue	
17	1530	3A	Trustee Yellow	
18	1615	2	Trustee Red	
19	1645	1	Cameo Blue	
20	1730	2	Trustee Blue	
21	1800	1	Cameo Yellow	
22	1830	3	Brutus Yellow	

4. The allotment of fighter aircraft for artillery adjustment is six missions per day beginning D/1.

5. Armed reconnaissance of roads as shown on the attached Tactical Reconnaissance overlay is planned throughout the hours of darkness. Results of the reconnaissance will be furnished the interested units by most expeditious means.

By command of MAJOR GENERAL PATCH:-

A. A. WHITE
Brigadier General, GSC.
Chief of Staff.

OFFICIAL:

William W Quinn
WILLIAM W. QUINN
Colonel, G.S.C.
A. C. of S., G-2.

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Ref. No. X-1281 [redacted] SECRET BIGOT ANVIL

Copy No. 1 HEADQUARTERS SEVENTH ARMY
APO# 758

26 July 1944

ANNEX NO 3

FIELD ORDER NO 1 ANVIL

PART 1

TROOP LIST (US)

VI CORPS

Unit

VI CORPS

Hq & Hq Co, VI Corps

DIVISIONS

3rd Infantry Division

45th Infantry Division

36th Infantry Division

COMBAT COMMAND

Combat Command Sudre 1ere Division Blindee

Attached:

1ere Cie, 9e Regt Chasseurs d'Afrique

Det, 661/2 Cie De Reparation Engines Blindee

66e Cie de Munitions (-)

Det, 705 Cie de Ravitaillement en Essence

FIELD ARTILLERY

Hq & Hq Btry, VI Corps Arty

Hq & Hq Btry, 6th FA Gp

Hq & Hq Btry, 35th FA Gp

Hq & Hq Btry, 36th FA Gp

2nd FA Obsn Bn

36th FA Bn (155 Gun)

59th FA Bn (105 How SP)

69th FA Bn (105 How SP)

93rd FA Bn (105 How SP)

141st FA Bn (155 How)

634th FA Bn (155 How)

937th FA Bn (155 How)

938th FA Bn (155 How)

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Unit

FIELD ARTILLERY (Cont'd)

976th FA Bn (155 Gun)

977th FA Bn (155 Gun)

ANTIAIRCRAFT ARTILLERY

Hq & Hq Btry, 35th AAA Brig & 35th AAOR

Hq & Hq Btry, 5th AAA Gp

Hq & Hq Btry, 68th AAA Gp

Hq & Hq Btry, 105th AAA Gp

106th AAA (AW) Bn (SP)

441st AAA (AW) Bn (SP)

443rd AAA AW Bn (SP)

107th AAA (AW) Bn (Mbl)

433rd AAA (AW) Bn (Mbl)

451st AAA AW Bn (Mbl)

534 AAA (AW) Bn (Mbl)

895th AAA (AW) Bn (Mbl)

68th AAA Gun Bn (Mbl)

72nd AAA Gun Bn (mbl)

108th AAA Gun Bn (Mbl)

216th AAA Gun Bn (Mbl)

102nd AAA Barrage Balloon Btry (VLA)

103rd AAA Barrage Balloon Btry (VLA)

104th AAA Barrage Balloon Btry (VLA)

ARMORED FORCE

191st Tank Bn

753rd Tank Bn

756th Tank Bn

TANK DESTROYER

601st TD Bn

636th TD Bn

645th TD Bn

CAVALRY

117th Cav Rcn Sq

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Unit	I
CHEMICAL WARFARE	
2nd Cml Bn Mtz (-1 Co)	
3rd Cml Bn Mtz	
83rd Cml Bn Mtz (-1 Co)	
6th Cml Dep Co	
11th Cml Maint Co	
21st Cml Decon Co (-3 plats) (Smoke Troops)	
ENGINEER	
343rd Engr GS Regt	
344th Engr GS Regt	
Co C, (Bailey Bridge), 378th Engr Bn (Sep)	
Co D, (Tradway Bridge), 378th Engr Bn (Sep)	
1st Plat 424 Engr DT Co.	
Contact Plat, 469th Engr Maint Co	
Survey Plat, 661st Engr Topo Co	
6617th Engr Mine Clearance Co	
MILITARY POLICE	
206th MP Co	
MEDICAL	
2nd Aux Surg Gp	
14 Gen Surg Teams 3 Shock Teams 1 Gas Team 3 Orthopedic Teams 2 Neuro Teams 2 Thoracic Teams 3 Dental Prosthetic Teams 2 Maxial Facial Teams	
10th Field Hospital	
6703rd Blood Transfusion Unit (Fwd Disb Sec)	
11th Field Hospital	
11th Evac Hospital (SH) (400 bed)	
93rd Evac Hospital (SH) (400 bed)	
95th Evac Hospital (SH) (400 bed)	
ORDNANCE	
Hq & Hq Det, 43rd Ord Bn (w/atchd Med)	
Hq & Hq Det, 44th Ord Bn (w/atchd Med)	
Hq & Hq Det, 45th Ord Bn (w/atchd Med)	

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Unit

ORDNANCE (Cont'd)

14th Ord H H Co

45th Ord H H Co

46th Ord H H Co

87th Ord H H Co (FA)

261st Ord H H Co (AA)

3406th Ord M M Co

3408th Ord M M Co

3432nd Ord M M Co

64th Ord Amm Co

66th Ord Amm Co

680th Ord Amm Co

143rd Ord Bomb Disp Sq

144th Ord Bomb Disp Sq

145th Ord Bomb Disp Sq

146th Ord Bomb Disp Sq

QUARTERMASTER

46th QM GR Co (-1 Plat)

Plat, 549th QM Laundry Co

3426th QM Truck Co

SIGNAL

1st Signal Center Team

57th Signal Bn

Det A 117th RI Co

3201 SIS Det

4 Dets, 163rd Signal Photo CO

NAVAL

3 Naval Combat Intel Teams

15 Naval Shore Fire Control Parties

Naval Gunfire Liaison Personnel

The following listed Regimental Beach Groups with units listed, or similar units, will be attached VI Corps for the assault phase of the Operation ANVIL.

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Unit

3RD INFANTRY DIVISION BEACH GROUP

36th Engr C Regt

1st Naval Beach Bn

72nd Sig Co (Spec)

Det, 207 Sig Dep Co plus Det, 177th Sig Rep Co

Hq & Hq Det, 52nd Med Bn

376th Med Coll Co
377th Med Coll Co
378th Med Coll Co
682nd Med Coll Co
1st Plat & Hq Det, 616th Med Clr Co

Det, Boat Guards
157th MP PW Det
706th MP PW Det
790th MP PW Det

Det, 377th MP Escort Guard Co

Co A, 759th MP Bn

1st Plat, 21st Cml Decon Co (Smoke Troops)

Det, 63rd Cml Dep Co

3rd Plat, 450th Engr Dep Co

69th Ord Amm Co

Det, 77th Ord Dep Co

Det, 977th Ord Dep Co

3407th Ord Med Auto Maint Co (DUKW)

Det, 6690th Regulating Co

Hq & Hq Det, 530th QM Bn

4133rd QM Serv Co
4134th QM Serv Co
4135th QM Serv Co
4136th QM Serv Co
3277th QM Serv Co

3357th QM Truck Co

3634th QM Truck Co

Hq & Hq Det, 52nd QM Bn (Mbl)

3333rd QM Truck Co (DUKW)
3334th QM Truck Co (DUKW)
3335th QM Truck Co (DUKW)
3336th QM Truck Co (DUKW)

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Unit

3RD INFANTRY DIVISION BEACH GROUP (Cont'd)

3353rd QM Truck Co (DUKW)
3355th QM Truck Co (DUKW)

Sec, 3856th QM Gas Sup Co

1 Plat, 93rd QM Rhd Co

332nd Air Force Beach Detail

111th Beach Section, RAF

45TH INFANTRY DIVISION BEACH GROUP

40th Engr Combat Regt

4th Naval Beach Bn

71st Sig Co (Spec)

Det, 207th Sig Dep Co & 177th Sig Rep Co

Hq & Hq Det, 58th Med Bn

388th Med Coll Co
389th Med Coll Co
390th Med Coll Co
514th Med Clearing Co
2nd Plat, 616th Clearing Co

Co B, 759th MP Bn

1 Sec, 377th PW Esct Guard Co

Det, Boat Guards
133 Prov PW Det
175 PRov PW Det
191 Prov PW Det

3rd Plat, 21st Cml Decon Co (Smoke Troops)

Det, 63rd Cml Depot Co

2nd Plat, 450th Engr Dep Co

682nd Ord Amm Co

Det, 77th Ord Dep Co

Det, 977th Ord Dep Co

3487th Ord M Auto Maint Co (DUKW)

3633rd QM Truck Co

3425th QM Truck Co

Det, 6690th Regulating Co

Hq & Hq Det, 147th QM Bn (Mbl)

829th Amphibian Truck Co
830th Amphibian Truck Co
831st Amphibian Truck Co

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UNIT

45TH INFANTRY DIVISION BEACH GROUP (Cont'd)

832nd Amphibian Truck Co

1 Sec, 3894th QM Gas Sup Co

Hq & Hq Det, 240th QM Bn

3250th QM Serv Co
3251st QM Serv Co
3252nd QM Serv Co
3253rd QM Serv Co
4053rd QM Serv Co

Plat, 94th QM Rhd Co

Air Force Beach Detail

110th Beach Section, RAF

36TH INFANTRY DIVISION BEACH GROUP

540th Engr C Regt (- 48th Engr C Bn)

8th Naval Beach Bn

74th Sig Co (Spec)

Det, 207th Sig Dep Co / 177th Sig Rep Co

Hq & Hq Det, 56th Med Bn

885th Med Coll Co
886th Med Coll Co
887th Med Coll Co
891st Med Clearing Co
1st Plat, 638th Clearing Co

Co C, 759th MP Bn

1 Sec, 377th PW Esct Guard Co

Det, Boat Guards

192 Prov MP PW Det
601 Prov MP PW Det
Prov MP PW Det

3rd Plat, 21st Cml Decon Co (Smoke Troops)

Det, 63rd Cml Depot Co

1st Plat, 450th Engr Dep Co

603rd Ord Amm Co

Det, 77th Ord Dep Co

Det, 977th Ord Dep Co

3405th Ord M Auto Maint Co (DUKW)

Det, 6690th Regulating Co

1 Sec, 3894th QM Gas Sup Co

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Unit

36TH INFANTRY DIVISION BEACH GROUP (Cont'd)

2nd Plat, 94th QM Rhd Co

Hq & Hq Det, 53rd QM Bn (Mbl)

3337th QM Truck Co (DUKW)
3338th QM Truck Co (DUKW)
3339th QM Truck Co (DUKW)
3340th QM Truck Co (DUKW)
3354th QM Truck Co (DUKW)
3356th QM Truck Co (DUKW)

Hq & Hq Det, 259th QM Bn

3286th QM Serv Co
3287th QM Serv Co
3288th QM Serv Co
3289th QM Serv Co
3300th QM Serv Co
3299th QM Serv Co

3427th QM Truck Co

3360th QM Truck Co

Air Force Beach Detail

111th Brick Section, RAF

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Unit

36TH INFANTRY DIVISION BEACH GROUP (Cont'd)

2nd Plat, 94th QM Rhd Co

Hq & Hq Det, 53rd QM Bn (Mbl)

3337th QM Truck Co (DUKW)
3338th QM Truck Co (DUKW)
3339th QM Truck Co (DUKW)
3340th QM Truck Co (DUKW)
3354th QM Truck Co (DUKW)
3356th QM Truck Co (DUKW)

Hq & Hq Det, 259th QM Bn

3286th QM Serv Co
3287th QM Serv Co
3288th QM Serv Co
3289th QM Serv Co
3300th QM Serv Co
3299th QM Serv Co

3427th QM Truck Co

3360th QM Truck Co

Air Force Beach Detail

111th Brick Section, RAF

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TROOP LIST (US)

ANNEX NO 3 ARMY TROOPS

PART II FIELD ORDER NO 1

Unit

7th Army

Det, Army Hq & Hq Co & Special Troops

Det, Hq Seventh Army (For Beach Control Hq)

Special Forces

1st Airborne Task Force:

Hq & Hq Co, AB Task Force

2nd British Independent Prcht Brigade (Gp)

517th Parachute Infantry

509th Parachute Infantry Battalion

550th Airborne Infantry Battalion

1st Battalion, 551st Prcht Inf (Reinforced)

460th Parachute Field Artillery Battalion

463d Airborne Field ArtilleryBattalion

602d Glider Field Artillery Battalion

596th Airborne Engineer Company

807th Engineer Company

512th Airborne Signal Company

Anti-Tank Co, 442nd Infantry
552nd Infantry Anti-tank Company
Company "A" 2d Chemical Battalion

Company "D" 83d Chemical Battalion

172d D. I. D. British Hvy Aerial Resupply Co

3314th Quartermaster Depot Co, Aerial Resupply (-)

3358th Quartermaster Truck Company

Detachment, 3d Ordnance Company (M.M.)

Special Service Force (-)

French Groupe de Commandos (-)

Engineer

Co D (rem Map Plat) 378th Engr Bn (Sep)

697th Engr Pet Dist Co & Hbl Lab, 701st Engr
Pet Dist Co

Surv Plat, 649th Engr Topo Bn

Co A, Engr Cam Bn

1202nd Engr Fire Fighting Plat

1204th Engr Fire Fighting Plat

1711th Engr Map Dep Det

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Military Police

204th MP Co

372nd MP Escort Guard

377th MP Escort Guard Co (-3 Secs)

504th MP Bn (-2 Cos)

Hq & Hq Det, 759th MP Bn

Medical

1st Adv Sec, 7th Med Depot Co

Quartermaster

94th QM Rhd Co (-2 Plats)

138th QM Truck Co

144th QM Truck Co

Det 202nd QM Car Co (-)

Hq & Hq Det, 528th QM Bn

3357th QM Truck Co

Signal

Army Sig Bn

Det, 163rd Sig Photo Co

226th Sig Opn Co

982nd Sig Serv Co

Miscellaneous

Det 72nd Liaison Sqd

Special Service Staff (Office Strategic Services)

11th Postal Regulating Unit

Twenty-eight Port Cos and Seven Bn Hq Dets.

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ANNEX NO 3

PART III FIELD ORDER NO 1

TROOP LIST(French)

ARMEE "B"

E-M Armee "B" et Cie QG 162/27 (-)

2e CORPS D'ARMEE

QG C.. et Cie QG C.. 75

DIVISIONS

1re Division de Marche d'Infanterie

3eme Division d'Infantrie Algeriene

1st Div Blindee (-2 GC)

2e Regt Spahis Algerienne (Ren Btn)

FIELD ARTILLERY

E-M du Groupement d'Artillerie No 1

1er Grpe du Regt d'Art Col du Levant

Det, 1st FA Obsn Bn (US)

3e Grpe du 65e Regt d'Art

ANTI-AIRCRAFT ARTILLERY

Det, Hq & Hq Btry, 34th AAA Brig (US)

Det, Hq & Hq Btry, 80th AAA Gp (US)

62nd AAA Gun Bn (US)

893rd A.A (AW) Bn (SP)

TANK DESTROYER

7e Regt Chasseurs d'Afrique

8e Regt Chasseurs d'Afrique

ENGINEER

Cie Topographique du Genie No 31

101e Regt du Genie

MILITARY POLICE

521e Regulatrice Routiere

2e Cie du 11 Group de le Garde

MEDICAL

401e Hopital d'Evacuation

105e Hopital d'Evacuation

432e Bataillion Medical

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MEDIC..L, cont'd

422e Hopital d Campagne

Organe de Reanination et de Transfusion No 441/3

451/1 Depot Avance

ORDN..NCE

E-H du 651e Bon de Reparation

Cie Moyene de Reparation Auto No 651/3

Cie Moyene de Reparation Auto No 652/3

Cie Moyenne de Reparation Material 652/1

64e Cie de Munitions

65e Cie de Munitions

QU..RTERM..STER

1er Bon du 8 Regiment de Tirgilleur Senegalais, Pioniers

Gestion de Subsistance d'Etapes No 323

Gestion de Subsistance d'Etapes No 325

Cie Mixte de Ravitaillement en Essence No 704 (2 dets)

SIGN..L

61e Bon de Transmission de C..

3 Dets, 163rd Sig Photo Co (US)

806 Bataillon de Construction

Det, Parc de Transmission No 810 & Det Cie Technique de Transmission No 841

6693rd Sig Det (Prov) (US)

Det, Trans Armee "B" (Cie d' Exploit 827/1)
(Son Ecoutes 828)
(Grp Tele Mil 829)

TR..NSP.RT..TION

11e Cie du Grp de Transport No 501

The following units will be available to Army "B" on subsequent convoys:

9e Division d'Infanterie Coloniale

2 Groupes de Tabors

Supporting Units.

By Command of Major General P..TCH:

A. A. WHITE,
Brig. General, G.S.C.,
Chief of Staff.

OFFICI..L:
JOHN S. GUTHRIE,
Colonel, G.S.C.,
A.C. of S., G-3

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[redacted] SECRET BIGOT - DRAGOON

[redacted] HEADQUARTERS SEVENTH ARMY
A.P.O. 758 U.S. ARMY

3 August 1944

Copy No. 100

Ref. No. X-1392

ANNEX NO. 4
To F.O. No. 1

AMENDMENT NO. 1

CONVOY PLAN

1. The following are changes in the Convoy Plan dated 30 July 1944:

Para 1 and 2	Column 3	Change from D + 4 to D - 4
" 3 and 4	" 3	" " D - 3 to D - 2
" 5	" 3	" " D - 3 to D - 2
" 7	" 3	" " D - 3 to D - 2
" 12 and 13	" 3	" " ? to D - 4
" 14	" 3	" " D - 5 to D - 3
" 15	" 3	" " D - 5 to D - 3
" 37	" 3	" " D + 53 to D + 52
" 38	" 3	" " D + 58 to D + 57
" 39	" 3	" " D + 63 to D + 62
" 58	" 3	Insert D + 20
" 60	" 3	Change from D + 37 to D + 35
" 83	" 85	" " D + 3 to D + 13
" 20	" 6	" " 5 Pers Ships to 4 Pers Ships
26	" 8	Insert GENERAL SQUIER, JAMES PARKER,
32		SANTA ROSA, MARINE ROBIN.
" 72	" 6	Delete "Mule Ship, CHATEAU LATOUR".
	" 7	Delete "200 Animals"
" 111	" 4	Change from ALPHA to DELTA
	" 6	" " 140 to 58 ".
	" 6	" " JOHN SARGEANT to WILLIAM MOULTRIE
	" 6	Change from OLIVER PERRY to LUCRETIA MOTT
" 115	" 6	Add "Mule Ship, CHATEAU LATOUR" immediately under "8 MT/Stores Ships".
	" 7	Add "200 Animals" immediately under "Approx 13,000 tons".
" 37	" 6	Change from 5 Pers Ships to 4 Pers Ships
	" 8	Insert GENERAL SQUIER, JAMES PARKER, SANTA ROSA, MARINE ROBIN.

By Command of Major General PATCH:

ARTHUR M. WHITE
Brig.Gen.U.S.A.
Chief of Staff.

OFFICIAL:

Oliver C. Harvey

OLIVER C. HARVEY,
Colonel, G.S.C.,
A. C. of S., G-4.

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HEADQUARTERS SEVENTH ARMY
A.P.O. #758 U.S. ARMY

Copy No. 100

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30 July 1944

ANNEX NO. 4
TO F.O. NO. 1 ANVIL

CONVOY PLAN

1. Attached is Convoy Plan listing all convoys scheduled to date.

2. Pages 1 thru 5 contain Fast Speed convoys. Pages 6 thru 8 contain Medium Speed convoys. Pages 9 thru 19 contain Slow Speed convoys.

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brig. Gen., U.S.A.,
Chief of Staff.

OFFICIAL:

Oliver C. Harvey

OLIVER C. HARVEY,
Colonel, G. S. C.,
A. C. of S., G-4.

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
1	SY-1	NAPLES	D + 4	SITKA Dest.	D - 1	5 LPD PRINCE HENRY (523) PRINCE DAVID (525)		Special Service Force
2				Cape Negre	D - 1	PRINCESS BEATRIX (526) PRINCE ALBERT (522) PRINCE BAUDOUIN (524)		Commandos
3	SF-1B	NAPLES	D - 3	ALPHA	D Day	Trans Div #1 HENRICO (APA 45) CHASE (APA 26) ARUNDEL (XAP 76) THURSTON (XAP 77) OBERON (AKA 14) ANDROMEDA (AKA 15)	M/T only on APAs and AKAs	HENRICO: Flagship & HQ Ship Seventh Army. To discharge over Beach 261. Space for 900 3rd Div personnel reserved. DERBYSHIRE: Space for 900 personnel reserved for Army to discharge on Beach 261. DUNERA: Army Troops. 50 port personnel on APAs 25 port personnel on AKAs
4						DERBYSHIRE (504) DUNERA (506)		

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
5	SF-1	NAPLES	D - 3	CAMEL	D Day	Trans Div #3 CARROLL (APA 28) JEFFERSON (APA 30) DOROTEA L. DIX (XAP 67) NIGHTINGALE (XAP 70) CERBERUS (AKA 18) ACHERNAR (AKA 53) BETELGEUSE (AKA 11)	M/T only on APA and AKA	BETELGEUSE: Reserved for VI Corps Hq. 50 Port personnel on APA or XAP 25 Port personnel on AKAs
6						KAREN (511) GENERAL SQUIER (516)		
7	SF-1A	NAPLES	D - 3	DELTA	D Day	Trans Div #5 STANTON (XAP 69) BARNETT (APA 5) DICKMAN (APA 13) LYON (XAP 71) ARCTURUS (AKA 1) PROCYON (AKA 2)	M/T only on APA and AKA	50 Port personnel on APA or XAP 25 Port personnel on AKA
						ASCONIA (501) DILWARA (505)		45 Div Loading
8						MARINE ROBIN (512) SANTA ROSA (514)		Corps Loading 1000 spaces reserved for Air Force personnel

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CONVOY PROGRAMME

HQ 7th ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
9	SF-2B	NAPLES	D-3	ALPHA	D	47 LCI(L)		3rd Division
10	SF-2A			DELTA	D	38 LCI(L)		45th Division
11	SF-2			CAMEL	D	30 LCI(L)		36th Division
12	Special No. 2	ORAN	?	CAMEL	D/1	WINCHESTER CASTLE (520)		1st CC/Soudre (FR)
13				DELTA	D/1	PARKER (513)		2nd CC/1st Armored Div. (FR)
14	TF-1	TARANTO	D-5	ALPHA	D/1	DURBAN CASTLE (507) EMPIRE PRIDE (509) VOLENDAM (519) STAFFORDSHIRE (517) SOBIESKI (515)		1st DIV
15	TF-1	TARANTO	D-5	DELTA	D/1	BATORY (502) CIRCASSIA (503) TAKLIWA (518) WORCESTERSHIRE (521) CAMERONIAN (510) EASTERN PRINCE (508)		BATORY: Hq Ship Army "B"
16	SF-3	NAPLES	D/5		D/7	30 LCI(L)		

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HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
17	SF-4	NAPLES	D/8		D/10	48 LCI(L)		
18	SF-5	NAPLES	D/8		D/10	Trans Div #3		
19	SF-6	NAPLES	D/13		D/15	Trans Div #5		
20	AF-1	ORAN	D/12		D/15	Trans Div #1 5 Pers. Ships		
21	SF-7	NAPLES	D/18		D/20	Trans Div #3		
22	SF-8	NAPLES	D/18		D/20	48 LCI(L)		
23	SF-9	NAPLES	D/23		D/25	Trans Div #1		
24	SF-10	NAPLES	D/23		D/25	Trans Div #5		
25	AF-2	ORAN	D/22		D/25	30 LCI(L)		
26	AF-3	ORAN	D/27		D/30	5 Pers. Ships		
27	SF-11	NAPLES	D/28		D/30	48 LCI(L)		
28	AF-4	ORAN	D/32		D/35	Trans Div #3		
29	SF-12	NAPLES	D/33		D/35	Trans Div #1 Trans Div #5		
30	SF-13	NAPLES	D/33		D/35	30 LCI(L)		
31	SF-14	NAPLES	D/38		D/40	48 LCI(L)		
32	SF-15	NAPLES	D/38		D/40	5 Pers. Ships		
33	SF-16	NAPLES	D/43		D/45	Trans Div #1 Trans Div #5		
34	SF-17	NAPLES	D/43		D/45	30 LCI(L)		

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HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
35	AF-5	ORAN	D/47		D/50	Trans Div #3		
36	SF-18	NAPLES	D/48		D/50	48 LCI(L)		Completes Naples Lift
37	AF-6	ORAN	D/53		D/55	5 Pers. Ships		
38	AF-7	ORAN	D/58		D/60	Trans Div #1		
39	AF-8	ORAN	D/63		D/65	Trans Div #5		

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
50	SM-1-B	NAPLES	D-5	ALPHA	D	22 LST		3rd Div. 1 fitted with cub flight deck.
51	SM-1-A			DELTA	D	22 LST		45th Div. 1 fitted with cub flight deck.
52	SM1			CAMEL	D	22 LST		36th Div. 1 fitted with cub flight deck.
				TARGET	D on call	3 LST		Fitted with GCI - one to be stowed for landing D Day
53	SS-1B	NAPLES	D-6	ALPHA	D	38 LCT		3rd Div. 1 LCT for VI Corps Hq.
54	SS-1A			DELTA	D	40 LCT		45th Div. 3 LCT for VI Corps Hq.
55	SS-1			CAMEL	D	38 LCT		36th Div. 1 LCT for VI Corps Hq.
56	SM-4	NAPLES	D/7		D/10	17 LST		
57	SM-6	NAPLES	D/17		D/20	17 LST		
58	AM-6	ORAN			D/25	25 LST		
59	SM-9	NAPLES	D/32	ASTORIA	D/35	15 LST		
60	AM-9	ORAN	D/37	ASTORIA	D/40	27 LST		
61	SM-11	NAPLES	D/42	CYRIL	D/45	15 LST		
62	AM-11	ORAN	D/45	CYRIL	D/50	10 LST		
63	AM-12	ORAN	D/50	CYRIL	D/55	27 LST		
64	AM-13	ORAN	D/55	CYRIL	D/60	15 LST		COMPLETES LIFT FROM ORAN

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HQ 7TH ARMY - 30 July 1944

CONVOY PROGRAMME

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
70	KM-1	CALVI	D+1	CAMEL	D+2	BRUISER 2 LST THRUSTER		AIR FORCE
71	KM-2	CALVI	D+3	CAMEL	D+4	9 LST		AIR FORCE
72	CM-1	AJACCIO	D+4	DELTA	D+5	Mule Ship CHATEAU LATOUR	200 Animals	
73						15 LST	1400 Animals	7 LSTs to be fitted for animals. GROUND FORCES
74						STAR (Coaster)	Stores & Forage approx-2000 tons	
75						15 LST		GROUND FORCES 3 LSTs equipped with sub flight deck.
76				ALPHA	D+5	CORCREST (Coaster)	Approx. 1800 tons	
77	KM-3	CALVI	D+7	ALPHA	D+8	2 LST		AIR FORCES
78				DELTA	D+8	1 LST		
79				CAMEL	D+8	6 LST		
80	CM-2	AJACCIO	D+8	DELTA	D+9	35 LST		GROUND FORCES
81	KM-4	CALVI	D+11	DELTA	D+12	4 LST		AIR FORCES
82				CAMEL	D+12	5 LST		
83	CM-3	AJACCIO	D+12	ALPHA	D+3	10 LST		GROUND FORCES
84	KM-5	CALVI	D+15	DELTA	D+16	5 LST		AIR FORCES
85				CAMEL	D+16	4 LST		
86	CM-4	AJACCIO	D+16	ALPHA	D+17	10 LST		GROUND FORCES
87	KM-6	CALVI	D+19	ALPHA	D+20	5 LST		AIR FORCES
88				DELTA	D+20	2 LST		
89				CAMEL	D+20	2 LST		
90	CM-5	AJACCIO	D+20	ALPHA	D+21	10 LST		GROUND FORCES

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
91	KM-7	CALVI	D/23	PONT	D/24	9 LST		AIR FORCES
92	CM-6	AJACCIO	D/24	PONT	D/25	10 LST		GROUND FORCES
93	KM-8	CALVI	D/27	PONT	D/28	9 LST		AIR FORCES
94	CM-7	AJACCIO	D/28	PONT	D/29	10 LST		GROUND FORCES
95	KM-9	CALVI	D/31	PONT	D/32	9 LST		AIR FORCES
96	CM-8	AJACCIO	D/32	PONT	D/33	10 LST		GROUND FORCES
97	KM-10	CALVI	D/35	PONT	D/36	9 LST		AIR FORCES
98	CM-9	AJACCIO	D/36	PONT	D/37	10 LST		GROUND FORCES

AIR FORCE LIFT FROM CORSICA COMPLETED.
BUILD UP FROM SARDINIA STARTS WITH 9 LST.
GROUND FORCE LIFT FROM CORSICA COMPLETE.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
100	SM-2P	NAPLES	D - 3	ALPHA	D-Day	51 LOUISA M. ALCOTT 44 BLACK HAWK 47 HENRY W. BEECHER 48 JAMES McHENRY 52 MERCY WARREN 53 RICHARD RUSH 45 CUSHING EELLS 46 EDWARD BURLESON 55 WILLIAM BLOUNT 49 LAURA KEENE	Carries approx 6600 tons maintenance	3rd Division Ships, 125 port personnel aboard each ship.
101						17 JOHN B. HOOD 13 GEORGE MEADE	M/T only M/T only	Army Ships - 1/2 of capacity reserved for Air Forces on both ships. 125 Port Pers on ea ship.
102						35 JAMES RUMSEY 15 GEORGE LEONARD	M/T only M/T only	Air Force Ships - 1/2 of capacity reserved for Army on both ships. 51 Port Pers on ea ship.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
103	SM - 2A	NAPLES	D - 3	DELTA	D-Day	41 TABITHA BROWN 38 JOHN W. BROWN 40 PETER McGUIRE 33 HENRY COMMERS 43 WILLIAM JACKSON 30 ETHAN ALLEN 32 GEORGE McCRARY 39 MARION BOWARD 27 ABEL STEARNS 31 FURNIFOLD SIMMONS	Approx 9000 tons of Maintenance.	45th Division Loading 125 Port Personnel aboard each ship.
104						34 HOWELL E. JACKSON 29 ALEXANDER DALLAS 28 ALBERT MICHELSON	Carries Maintenance M/T Only Carries Maintenance	Corps Ship - 125 Port Pers Corps Ship - 101 Port Pers Corps Ship - 125 Port Pers
105						22 LINCOLN STEFFINS 36 JOHN GROPPER 113 EDW. RICHARDSON	Carries Maintenance M/T Only M/T Only	Air Force Ship - 50 Port Pers. Air Force Ship - 51 Port Pers. Air Force Ship - 76 Port Pers.
106						14 GEORGE HANDLEY	M/T Only	Army Ship - 125 Port Pers

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
107	SM - 2	NAPLES	D - 3	CAMEL	D-Day	23 LUTHER MARTIN 26 WILLIAM PAWLE 25 WILLIAM FLOYD 11 AMBROSE BURNSIDE 12 ANDREW MOORE 18 JOHN LAWSON 21 KEMP BATTLE 24 SAMUEL GRIFFIN 19 JOHN TRUMBULL 16 JAMES MOORE	Lifts approx 8600 tons maintenance	36th Division Shipping 125 Port Pers aboard each ship
108						42 WILLIAM A. GRAHAM 20 JOSIAH BARTLETT 37 JOHN MOORHEAD	M/T Only Lifts approx _____ tons M/T Only	Air Force Ships - Each carry 51 Port Pers.
109						54 ROGER WILLIAMS 50 LEONIDAS POLK	Lifts approx _____ tons maintenance Lifts approx _____ tons maintenance	Corps Ships - carry 126 Port Pers each.
110						111 SAM WASH 112 JAN LIEVENS		Carries 50 DUKWs plus Pet. Dist. Co. 101 Port Pers aboard each.

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P.C.U.	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
111	AM - 1	CRAN	D - 5	ALPHA	D + 1	61 GRANVILLE M. DODGE 59 GEORGE BANCROFT 57 EDWIN GODKIN 58 CROSBY HOWE 67 WILLIAM GODY 66 TRISTAM DALTON 64 JOSEPH H. NICHOLSON 69 JOHN SANGRAM 68 OLIVER FINEY 70 KING WOOLSEY	M/T Stores Approx 1250 tons M/T Stores " " " M/T Stores M/T Only " " " " " " " " " " " "	2nd Combat Command of 1st French Arm'd Div. 126 Port Pers on each of the three M/T Stores Ships and 75 Port Pers on only one of the 7 M/T Only Ships.
112				CAMEL		60 GEORGE BANCROFTBRIDGE 56 BUTT HANTS 63 JOHN S. PILLSBURY 65 TARLETON BROWN 62 JAMES JACKSON 6 LST	M/T Stores Approx 1250 tons " " " " " " " " " " M/T Only " "	LSTs include THRUSTER and BRUISER. Carries CC Soudre (1st Combat Command of 1st French Arm'd Div). 20 DUKWs included in this convoy. 125 Port Pers on each of the M/T Stores Ships and 75 Port Pers on only one of the two M/T Only Ships.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
						79 FORT ARLAVIK	M/T Stores	M/T Stores Ships carry total of approx 4400 tons and each of these ships have 125 port personnel.
						84 FORT FRONTENAC	" "	
						80 FORT BEAUSEJOUR	" "	
						76 EMPIRE ROSALIND	" "	
						88 FORT MARIN	M/T Only	100 Port Pers on 4 M/T Only ships and 50 Port Pers on 3 M/T Only Ships. Remaining 10 M/T Only Ships have no port personnel aboard
						83 FORT FROBISHER	" "	
						82 FORT CUMBERLAND	" "	
						81 FORT CHESTERFIELD	" "	
						73 EMPIRE CLARION	" "	
113	TM-1	TARANTO	D-6	ALPHA	D/1	75 EMPIRE OUTPOST	" "	Carried 1st DIM (French) and a portion of Corps troops.
						74 EMPIRE NOBLE	" "	
						77 EMPIRE UNICORN	" "	
						104 SAMBO	" "	
						105 SAMOA	" "	
						106 SAMPAN	" "	
						96 OCEAN GALLANT	" "	
						103 OCEAN VESPER	" "	
						93 HARLESDEN	" "	
						94 JERSEY MART	" "	
						109 THISTLEMUIR	" "	
						95 NORMAN MONARCH	" "	

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
114	TS-1 (Cont'd)	TARANTO	D-6	DELTA	D/1	97 OCEAN GLORY	M/T Stores	MT/Stores ships carry total of approx 4400 tons and each of these ships have 125port pers. 100 port pers. on 4 MT Only ships & 50 port pers. on 3 MT Only ships. Remaining 8 MT Only ships have no port pers. Carried 3rd DIA (French and a portion of Corps and Army B Troops.
						99 OCEAN MESSENGER	" "	
						102 OCEAN TRAVELLER	" "	
						89 FORT MICHIPICOTEN	" "	
						92 FORT STAGER	M/T Only	
						85 FORT GASPEREAU	" "	
						91 FORT RICHELIEU	" "	
						86 FORT GRAHAM	" "	
						90 FORT PEMBINA	" "	
						87 FORT MALSONEUVE	" "	
						107 SAMSTEEL	" "	
						100 OCEAN PRIDE	" "	
						98 OCEAN GYPSEY	" "	
						101 OCEAN RIDER	" "	
						72 COULGORM	" "	
						108 THISTLEDALE	" "	
						71 CHEMSEY	" "	
						78 ESSEX TRADER	" "	
						110 VAN DER CAPELLE	" "	

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
115	SM-3	NAPLES	D/2	ALPHA	D/5	7 MT/Stores Ships	Approx 11800 tons	
				DELTA		8 MT/Stores Ships	Approx 13000 tons	
				CANCEL		7 MT/Stores Ships	Approx 11000 tons	
116	AM-2	ORAN	D Day	ALPHA	D/5	1 MT/Stores Ship	Approx 1000 tons	
						1 Coaster Dry (COPERNUS)	Approx 1400 tons	
				DELTA		1 Coaster Dry (DENEB)	Approx 2500 tons	
				CANCEL		2 MT/Stores Ships	Approx 2500 tons	
117	SM-4	NAPLES	D/7	ALPHA	D/10	9 MT/Stores Ships 1 Coaster Dry (GODWIN) 1 POL Coaster (SAMUEL V SHREEVE or NARVA)	Approx 16000 tons Approx 1800 tons Approx 1500 tons V-80	POL Coaster loads CAGLIARI, joins convoy at Straits of Bonifacio D/9
				DELTA		5 MT/Stores Ships 4 Mule Ships 1 POL Coaster (LEVANT)	Approx 8500 tons Approx 2000 animals Approx 1000 tons V-80 " 500 Lub & AGO	LEVANT has capacity of 2400 tons, will load Palermo join convoy at Naples.
				CANCEL		4 MT/Stores Ships 1 Coaster Dry (CODYSSEUS)	Approx 7100 tons Approx 1400 tons	
118		NAPLES		PORT	ON CALL	3 MT Ships	Loaded per NATOUSA letter 563.51 (SSGDS) dated 17 July 1944	Port Rehabilitation party. Loaded to be on call from D/10.
119	AM-3	ORAN	D/5	ALPHA	D/10	1 MT/Stores Ship	Approx 1800 tons	
				DELTA		3 MT/Stores Ships	Approx 4500 tons	
				CANCEL		3 MT/Stores Ships 1 POL Coaster (CORNELL or CONSTAR)	Approx 4300 tons : Approx 570 tons V-80 : Approx 900 tons V-100 : Approx 30 Tons Lubs & AGO	POL Coaster to load Bone, joins convoy off Bougie D/7

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HQ 7TH ARMY 30 June 1944

CONVOY PROGRAMME

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
120	SM-5	NAPLES	D/12	ALPHA	D/15	9 MT/Stores Ships 1 POL Coaster (KIUKOCHO or CURIGN)	Approx 13700 tons Approx 1070 tons V-80 Approx 430 tons Lub & AGO	POL Coaster loads Palermo, joins convoy at Naples.
				DELTA		5 MT/Stores Ships	Approx 8100 tons	
				CAMEL		4 MT/Stores Ships 1 POL Coaster (SAMUEL) (V SHELTNG or NAEWA)	Approx 6900 tons Approx 1500 tons	POL Coaster loads Cagliari, joins convoy at Straits of Bonifacio on D/14.
121	AM-4	ORAN	D/10	ALPHA	D/15	2 MT/Stores Ships	Approx 2000 tons	
				DELTA		2 MT/Stores Ships 1 Coaster Dry 1 POL Coaster (CONSELL or COSTAR)	Approx 3100 tons Approx 1500 tons Approx 1500 tons V-100	POL Coaster loads Bone, joins convoy off Bougie on D/12.
				CAMEL		3 MT/Stores Ships 1 Coaster Dry 1 Tanker (SYNCLINE)	Approx 4100 tons Approx 1500 tons Approx 1000 tons V-100	
122	SM-6	NAPLES	D/17	ALPHA	D/20	7 MT/Stores Ships	Approx 8000 tons	
				DELTA		3 MT/Stores Ships	Approx 3900 tons	
				CAMEL		5 MT/Stores Ships 1 Tanker (SALT CHUCK)	Approx 5000 tons Approx 1000 tons V-100	
123	AM-5	ORAN	D/15	ALPHA	D/20	2 MT/Stores Ships 1 Coaster Dry 1 POL Coaster (KELSANG)	Approx 2400 tons Approx 1500 tons Approx 1600 tons V-80 " 100 tons Lub	POL Coaster loads Algier and joins convoy off Algiers on D/16
				DELTA		2 MT/Stores Ships 1 Coaster Dry 1 LIBERTY 1 POL Coaster	Approx 2900 tons Approx 1500 Approx 5200 tons V-80 Approx 469 tons AGO " 446 tons V-100 Approx 2400 tons V-100	POL Coaster loads Algiers and joins convoy off Algiers on D/16. LAMENT CADWALDER
				CAMEL		3 MT/Stores Ships 2 Pol Coasters	Approx 4400 tons Approx 2700 tons V-100 440 tons Lubs	POL Coasters load Algiers and join convoy off Algiers on D/16.

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HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
124	SM-7	NAPLES	D/22	ALPHA	D/25	5 MT/Stores Ships	Approx 7350 tons	
				DELTA		4 MT/Stores Ships 1 Liberty Ship or 3 POL Coasters	Approx 5200 tons Approx 5850 tons V-80 " 480 tons MT Lubs " 200 tons Avn Lubs " 1140 tons AGO/Kero	To load Syracuse and join convoy at Naples.
				CAMEL		5 MT/Stores Ships 1 Tanker (HANNINGTON)	Approx 5600 tons Approx 1000 tons V-100	Tanker loads Cagliari, joins convoy at Straits of Bonifacio on D/24
125	AM-6	ORAN	D/20	ALPHA	D/25	2 MT/Stores Ships 1 Coaster Dry 1 Liberty Ship (JOHN HOPKINS)	Approx 2400 tons Approx 1500 tons Approx 1366 tons V-80 Approx 4464 tons V-100	Ex UGS-49
				DELTA		3 MT/Stores Ships	Approx 2700 tons	
				CAMEL		5 MT/Stores Ships 1 Coaster Dry 1 Liberty Ship	Approx 4700 tons Approx 1500 tons Approx 6420 tons V-80 " 510 tons AGO	Liberty Ship Ex UGS-50
126	SM-8	NAPLES	D/27	ASTORIA	D/30	15 MT/Stores Ships		
127	AM-7	ORAN	D/25	ASTORIA	D/30	10 MT/Stores Ships		
128				ASTORIA	D/30	5 Coasters	2 Coasters Dry 3 " POL	Coasters to load and join either Oran or Naples convoys
129	SM-9	NAPLES	D/32	ASTORIA	D/35	15 MT/Stores Ships		
130	AM-8	ORAN	D/30	ASTORIA	D/35	10 MT/Stores Ships		
131				ASTORIA	D/35	5 Coasters	2 Coasters Dry 3 " POL	Coasters to load and join either Oran or Naples Convoy.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
132	SM-10	NAPLES	D/37	ASTORIA	D/40	15MT/Stores Ships 4 Mule Ships		
133	AM-9	ORAN	D/35	ASTORIA	D/40	10 MT/Stores Ships 1 Liberty Ship (Civil Supplies)	6133 Tons Civil Supplies	Civil Supply Ship Direct from USA to join convoy at ORAN.
134				ASTORIA	D/40	5 Coasters	2 Coasters Dry 3 Coasters POL	To load and join either ORAN or NAPLES Convoy.
135	SM-11	NAPLES	D/42	CYRIL	D/45	10 MT/Stores Ships		
136	AM-10	ORAN	D/40	ASTORIA	D/45	15 MT/Stores Ships		
137					D/45	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to load and join either ORAN or NAPLES Convoy.
138	SM-12	NAPLES	D/47	CYRIL	D/50	15 MT/Stores Ships 2 MT/Stores Ships (Civil Supplies)		Civil Supply ships ex ALEXANDRIA and carry wheeled vehicles and bagged wheat to join convoy at NAPLES.
139	AM-11	ORAN	D/45	CYRIL	D/50	10 MT/Stores Ships 1 Liberty Ship (Civil Supplies)	6133 Tons Civil Supplies	Civil Supply ship direct from USA to join convoy at ORAN
140					D/50	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to load and join either ORAN or NAPLES Convoy.
141	SM-13	NAPLES	D/52	CYRIL	D/55	10 MT/Stores Ships		
142	AM-12	ORAN	D/50	CYRIL	D/55	15 MT/Stores Ships		
143					D/55	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to load and join either ORAN or NAPLES Convoy.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
144	SM-14	NAPLES	D/57	CYRIL	D/60	15 MT/Stores Ships 2 MT/Stores Ships (Civil Supplies) 4 Mule Ships		Civil Supply ships ex ALEXANDRIA and carry wheeled vehicles and bagged wheat to join convoy at NAPLES
145	AM-13	ORAN	D/55	CYRIL	D/60	10 MT/Stores Ships 1 Liberty Ship (Civil Supplies)	6133 Tons (Civil Supplies)	Civil Supply ship direct from USA to join convoy at ORAN
146					D/60	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to Load and join either ORAN or NAPLES Convoy.

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Ref. No. X-1406 SECRET BIGOT ANVIL

Copy No. 100

HEADQUARTERS SEVENTH ARMY
APO 758

ANNEX NO. 5
TO F.O. #1 ANVIL

4 August 1944

MAP: FRANCE, 1/100,000

AIR SUPPORT PLAN

I. GENERAL MISSIONS

The general missions of the Air Forces in Operation "ANVIL" are:

a. To neutralize the enemy air forces on the ground and in the air.
b. To disrupt enemy communications, and retard the movement of enemy reserves both strategic and tactical, into the assault area.
c. To attack selected specific defense installations in the assault area.
d. To destroy submarine pens and sink prepared block ships in TOULON harbor.
e. To provide air cover over the assault area and shipping within 50 miles of it.
f. To provide close air support to the ground forces taking part in the operation.

II. Operations of XII TAC and other units of MATAF in support of Operation "ANVIL"

PHASE I: Prior to D Day.

1. To conduct strong counter-air force operations against the enemy in the PO Valley and the South of FRANCE.

2. To block and keep blocked all enemy lines of communication between Northern ITALY and Southern FRANCE.

3. To destroy all rail bridges across the RHONE River, South of VALENCE.

4. To destroy selected coastal batteries between GENOA and SETE.

5. To destroy selected radar stations between GENOA and SETE.

6. To conduct air operations in support of the cover plan. As an incident to this cover plan to destroy the guns on the Ile Du LEVANT.

PHASE II: D Day Prior to H Hour.

1. To cause maximum destruction to enemy coastal and beach defenses within the assault area with all forces available.

2. The following target priority will be followed:

a. Counter battery attacks, coordinated with Naval gunfire, on enemy artillery that can be brought to bear on shipping of any type in the assault area.
b. Enemy guns and other military installations which bear directly on the ability of our ground forces to advance over the beaches.
c. Enemy light artillery and other military installations that are capable of delaying the planned "D" day advance in general.
d. Destruction of any enemy airdromes operational in or within close fighter operating range of the assault area.

3. PLAN OF ATTACK

a. Guns firing from 0550 to 0610B. (See General Instructions, sub-paragraph f.)

AO No.	TARGET	T.O.T. (All times B Time)	ESTIMATED FORCE
1	Any guns firing in area S-2550 to S-3159 to S-5060 (S-256528)	From 0550 to 0610	4 F/B Sorties
2	Any guns firing in area S-2353 to S-2450 to S-5831 to U-5636 (U-214512)	From 0550 to 0610	4 F/B Sorties
3	Any guns firing in area U-5831 to U-5636 to U-5320 to U-4823 (U-531252)	From 0550 to 0610	4 F/B Sorties
4	Any guns firing in area U-4823 to U-4117 to U-4414 to U-5418 (U-518176)	From 0550 to 0610	4 F/B Sorties

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AO No.	TARGET	T.O.T. (All times B time)	ESTIMATED FORCE
5	Any guns firing in area U-5416 to U-5015 to U-5008 to U-5406 (U-516103)	From 0550 to 0610	4 F/B Sorties
6	Any guns firing in area U-4810 to U-5205 to U-3708 to U-3802 (U-412052)	From 0550 to 0610	4 F/B Sorties
7	Any guns firing in area U-2905 to Z-3296 to Z-2095 to U-2002 (Z-276956)	From 0550 to 0610	4 F/B Sorties
8	Any guns firing in area Z-1904 to Z-1074 to Z-1099 to U-2001 (Z-121088)	From 0550 to 0610	4 F/B Sorties

b. Coastal Defense Guns, Primary Targets.

A.O.	TARGET	LOCATION	DESCRIPTION	MISSIONS	EACH MISSION'S NO. & TYPE A/C	TIME ON TARGET	BOMB LOADS
9	M-18	Z-276958	4-120CD	3	4 F/B	0615 0640 0655	Incendiary
				3	6 M/B	0650 0710 0725	Incendiary/
10	L-24-25	Z-121888	2-105CD	2	4 F/B	0620 0635	Incendiary
			2-155CD	3	6 M/B	0655 0715 0725	Incendiary/
11	P-34	U-546259	3-220CD	3	4 F/B	0610 0625 0645	Incendiary
				3	6 M/B	0650 0710 0725	Incendiary/
12	N-42	U-497171	4 Howe CD	1	4 F/B	0630	Incendiary
				3	6 M/B	0650 0700 0720	Incendiary/
13	P-63	S-205513	5-150CD	3	4 F/B	0610 0630 0650	*2 x 1000
				3	6 M/B	0705 0715 0730	Frag/Demo
14	Q-25	S-236526	6 DP	2	4 F/B	0615 0640	Incendiary
				3	6 M/B	0700 0710 0725	Incendiary/
15	Q-06	S-274542	4 DP	1	4 F/B	0620	Incendiary
				3	6 M/B	0655 0705 0720	Incendiary/
16	N-23	U-496122	4-105 DP	2	4 F/B	0620 0640	*2 x 1000
				3	6 M/B	0655 0710 0725	Frag/Demo
17	L-30	Z-105869	4-164CD	5	4 F/B	0610 0625 0640 0700 0715	Incendiary
18	P-39	U-522180		6	4 F/B	0610 0620 0640 0655 0710 0725	Incendiary
19	P-47	U-523179	5-220 CD	5	4 F/B	0615 0620 0625 0655 0725	Incendiary
20	P-48	U-525177		5	4 F/B	0610 0615 0625 0640 0710	Incendiary
21	N-12	U-441188	4-150 ?	5	4 F/B	0620 0635 0650 0705 0720	*2 x 1000
22	N-13	U-442186	2-Lt CD	3	4 F/B	0640 0655 0725	*2 x 1000
23	P-28	U-599365	4-105 CD	4	4 F/B	0615 0630 0645 0700	*2x 1000
24	Q-37	S-263538	2-Lt CD	3	4 F/B	0620 0650 0710	*2 x 1000
25	Q-38	S-223510	2-Lt CD	3	4 F/B	0615 0635 0700	*2 x 1000
26	Q-39	S-225515	2-Lt CD	3	4 F/B	0610 0625 0655	*2 x 1000
27	Q-04	S-238527	4-Lt CD (u)	2	4 F/B	0625 0645	*2 x 1000
28	Q-40	S-248527	2-CD	2	4 F/B	0630 0650	Incendiary
29	Q-03	S-214518	4-CD (u)	3	4 F/B	0620 0700 0720	*2 x 1000
30	P-40	U-516092	4-150 CD	6	4 F/B	0610 0625 0640 0655 0710 0725	*2 x 1000
31	N-15	U-448178	2-MCD	6	4 F/B	0615 0630 0645 0700 0715 0730	Incendiary
32	P-29	U-601337	4-Lt CD	3	4 F/B	0650 0710 0725	*2 x 1000
33	P-30	U-604337	2-Lt CD (u)	3	4 F/B	0630 0700 0720	*2 x 1000

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A.O.	TARGET	LOCATION	DESCRIPTION	MISS-IONS	EACH MISS-SION'S NO. & TYPE A/C	TIME ON TARGET	BOMB LOADS
(continued)							
34	O-07	S-334692	4-149 (u)	3	4 F/B	0655 0715 0730	*2 x 1000
35	P-41	U-521165	4-CD How.	3	4 F/B	0650 0705 0720	*2 x 1000
36	M-17	U-448107	4-CD How.	5	4 F/B	0630 0645 0700 0715 0730	*2 x 1000
37	N-19	U-500156	2-Lt CD (u)	3	4 F/B	0650 0705 0720	*2 x 1000
38	L-43-44	Z-135998	4-150 CD 2-?	2	6 M/B	0710 0730	Incendiary/ Demo

* 2 x 1000 pound bombs where condition of runway, experience of pilots, and daylight take-offs permit. Missions taking off before 0600 will carry 2 x 500 pound bombs.

c. Beach Defenses. Primary Targets.

AO NO.	TARGET		T.O.T.	ESTIMATED FORCE
39	Beach 259	U-415066	between 0700 and 0730	180 B-26
40	Beach 261	U-513125	between 0700 and 0730	120 M/B
41	Beach 263A	U-510255	between 0700 and 0730	40 M/B
42	Beach 263B	U-512240	between 0700 and 0730	40 M/B
43	Beach 263C	U-520250	between 0700 and 0730	40 M/B
44	Beach 264B	S-210515	between 0700 and 0730	40 M/B
45	Beach 265A	S-256523	between 0700 and 0730	124 B-25

d. Gun Positions.

AO NO.	TARGET	LOCATION	DESCRIP-TION	MISS-IONS	EACH MISSION'S NO. & TYPE A/C	T.O.T.	BOMB LOAD
46	L-27	Z-152055	2 CD	1	4 F/B	0635	Incendiary
47	L-29	Z-170854	4-155	1	4 F/B	0645	Incendiary
48	P-19	U-529334	2 Lt. F/D	1	4 F/B	0645	Incendiary
49	M-36	U-256032	4-CD	1	4 F/B	0705	*2 x 1000
50	P-17	U-514340	4-F/D	1	4 F/B	0705	*2 x 1000
51	M-10	U-439122	4-Lt CD	1	4 F/B	0715	*2 x 1000
52	P-37	U-533256	4-CD	1	4 F/B	0730	*2 x 1000
53	M-27	U-402163	2-Lt CD	1	4 F/B	0730	Incendiary

e. Coastal Defense Guns, alternate targets.

(1) Specific Assignment.

(a) The following missions will be assigned a special alternate target (M-28, consisting of 2 or 4 heavy Coastal Defense guns at U341026). This target may be seized by Commandos, and will therefore not be attacked unless specifically directed by Headquarters Ship. Headquarters Ship will call the designated missions, when airborne, by their AO number.

AO No.	PRIMARY TARGET T.O.T.	FORCE	ALTERNATE TARGET
AO 30	0610	4 F/B	
AO 16	0620	4 F/B	U 341026
AO 36	0630	4 F/B	
AO 31	0645	4 F/B	

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(b) The following missions will be assigned alternate targets as indicated:

AO No.	TIME	FORCE	TARGET	DESCRIPTION	LOCATION
13	0610	4 F/B	P-53	4-75 CD	U-515141
17	0625	4 F/B	H-35	4-CD	U-441076
22	0640	4 F/B	H-29	4-CD	U-391041
33	0700	4 F/B	O-33	4-155 CD	S-340702
32	0710	4 F/B	H-24	CD (u)	U-405066
29	0720	4 F/B	L-26	3-75 CD	Z-124887

(2) General Assignment.

(a) All othor F/B and medium bomber missions will be assigned one of the following strong points for an alternate target:

1. U-516103
2. U-510220
3. U-510233
4. U-516245
5. U-531252
6. U-505345
7. S-214512
8. S-256528
9. S-257532
10. S-259535
11. S-276543
12. U-412052
13. U-518176
14. U-439156
15. U-559307
16. U-559321

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f. GENERAL INSTRUCTIONS.

(1) AO's 1 - 8 inclusive will arrive at designated area at 0550 and will bomb any gun flashes seen in their immediate vicinity between 0550 and 0610. If no flashes seen by 0610, they will bomb designated strong points as alternate. 16 of these a/c will remain on low cover patrol of 8 in Apple Area, 8 in Cherry Area. At 0615 they will come under control of the Fighter Director Ship.

(2) AO's 8 - 38 inclusive will leave 16 a/c on patrol to relieve above 16, 8 on each patrol area as listed above. At 0650 they will come under contr l of Fighter Director Ship.

(3) AO's 8 - 38 inclusive will leave a further 16 a/c on patrol to relieve the above 16 of para. 2, 8 on each patrol area as listed above. At 0730 they will come under control of Fighter Director Ship.

(4) (a) 8 Navy F/B (fighter-bomber) will be on call at 0730, and 8 R/P (rocket projectile plane) on call at 0800.
(b) 16 XII Tactical Air Command F/B will be on call at 0800.

4. Fighter Cover. In addition to fighter-bomber effort and escort of Medium Bombers, XII T.A.C. fighters will maintain standing patrol over the beaches beginning at 0550 on D-Day. A patrol of 6 additional Spitfires will be furnished between 0600 and 0800 hours on D-Day as additional low cover over the assault area. See XII T.A.C. Operations Order No. 1.

5. Tac/R and Naval Spotting. Tac/R and Naval spotting a/c will be in the assault area from 0535 on D-day on. See XII T.A.C. Operations Order No.1.

6. Troop Carrier Cover.

a. 36 Spitfires of XII Tactical Air Command will furnish area cover between the northern tip of Corsica and the Italian mainland between 0530 and 0645 on D Day to protect the end of the Troop Carrier formation returning to Italian bases.

b. 4 Beaufighter sorties supplied by N. A. C. A. F. will furnish continuous area cover for Airborne Operations between the Italian mainland and the dropping point in "ANVIL" between the hours of 0300 and 0600 on D-Day.

7. Area of Bombing.

a. Defenses within beaches are considered nearly uniform on a per yard basis.

b. Beaches will be bombed to a depth of 400 yards by Heavy and Medium Bombers. Beach 265 A, being only 80 yards long will be bombed approximately 450 yards on each side, where defenses similar to beach defenses exist.

8. Bomb Loadings.

a. Beach Defenses
(1) Fragmentation or demolition bombs of weights not exceeding 260 pounds will normally be used.
(2) If necessary, because of insufficient supply of bombs of above categories, 500 pound bombs may be used to complete loads of the full force.
(3) Instantaneous fuses will be employed whenever possible. In no case will fuses other than instantaneous be used on demolition bombs larger than 100 pounds.
(4) No phosphorous or incendiary bombs will be employed against beach defenses.

b. Gun Positions
(1) Incendiary bombs (not white phosphorous) may and should be employed against certain gun positions as indicated in SECTION II, PHASE II above.
(2) Against gun positions not specifically cleared for incendiaries only large demolition bombs with short-delay fuses will be used.

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3. PLAN OF ATTACK.

a. From "H" Hour balance of "D" Day.

(1) Heavy Bombers - 9 Groups.

AERIAL OBJECTIVE NUMBER	TARGET NUMBER	LOCATION	DESCRIPTION	NO. OF MISSIONS	ESTIMATED NUMBER & TYPE A/C	TOT	BOMB LOAD
AO-501	264 A	From U-566332	Beach 264 A	1	30 H/B	1230-1245	Frag &
AO-502	264 A	To U-585345	Beach 264 A	1	30 H/B	1245-1300	Demo-lition Not to Exceed
AO-503	264 A	From U-570340 To U-561351	Road from Beach 264 A to Frejus	1	30 H/B	1220-1300	260 lb
AO-504	A	N-850204	Pont St Esprit road bridge	1	30 H/B	1300	demo-liti on
AO-505	B	N-880419	Donzere Pont du St Fusselue Road Bridge	1	30 H/B	1330	"
AO-506	C	N-878450	Viviers Road Bridge	1	30 H/B	1415	"
AO-507	D	N-871528	Latiel Road Bridge	1	30 H/B	1445	"
AO-508	E	O-010957	Valence Road Bridge	1	30 H/B	1530	"
AO-509	F	N-843325	Bourg St Andeol Road Bridge	1	30 H/B	1600	"

(2) Medium Bombers - 7 Groups

AO-510	G	O-875175	* Sisteron (RR Bridge (Rd Bridge	1	36 M/B	1600	Demo-lition
AO-511	H	S-844559	Arles Road Bridge	1	36 M/B	1615	"
AO-512	J	S-892797	Aramon Road Bridge	1	36 M/B	1615	"
AO-513	G	O-890175	** Sisteron (Bridge in AO 510) (Rd Bridge AO 510)	1	36 M/B	1615	"
AO-514	K	S-949997	Roquemaure Road Bridge	1	36 M/B	1615	"
AO-515	L	S-862699	Terascon Road Bridge	1	36 M/B	1630	"
AO-516	M	S-978864	Avignon Road Bridge	1	36 M/B	1630	"

* ½ effort on RR Bridge, and ½ on Road Bridge, both over the BUECH RIVER.

** 2/3 effort on road bridge over DURANCE RIVER, and 1/3 effort on either bridge in AO-510 not out.

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(3) Gun Positions and Rail cuts for Carrier Task Force.

AERIAL OBJECTIVE NUMBER	TARGET NUMBER	LOCATION	DESCRIPTION	NO. OF MISSIONS	ESTIMATED NUMBER & TYPE A/C	TOT	BOMB LOAD
AO-517	M-23	U-496122	4 C.D.	1	4 F/B	0800	2 x 500
AO-518	M-32	U-484104	4 C.D.	1	4 F/B	0800	2 x 500
AO-519	20	U-441118	2 C.D.	1	4 R/P (F/B)	0830	2 x 500
AO-520	P-39	U-523179	2 C.D.	1	4 R/P (F/B)	0830	2 x 500
AO-521	P-47	U-522180	1 C.D.	1	4 F/B	0900	2 x 500
AO-522	M-17	U-488107	4 C.D.	1	4 F/B	0900	2 x 500
AO-523	P-48	U-525177	1 C.D.	1	4 R/P (F/B)	0930	2 x 500
AO-524	M-42	U-497171	4 C.D. How.	1	4 R/P (F/B)	0930	2 x 500
AO-525	P-30	U-604336	2 C.D. Lt.	1	4 F/B	1000	2 x 500
AO-526	P-28	U-599365	4 C.D.	1	4 F/B	1000	2 x 500
AO-527	Sisteron (O-8918) to Portius (T-5957)		Railcuts	2	8 R/P	1200, 1330	
AO-528	Portius (T5957) to Aix (T5141)		Railcuts	1	8 R/P	1430	
AO-529	Aix (T5141) to (T-8036)		Railcuts	2	8 R/P	1600, 1800	
AO-530	Avignon (S-9787) to Miramus (T-1546)		Railcuts	1	8 F/B	1830	2 x 500
AO-531	Arles (S-8557) to Miramus (T-1546)		Railcuts	1	8 R/P	1900	
AO-532	Meyrargues (T-5854) to Darquignan (U-3147)		Railcuts	2	8 F/B 8 R/P	1930 2000	2 x 500

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(4) Gun Positions to be attacked by P-38's and P-47's who then go on patrol over the beaches.

AERIAL OBJECTIVE NO.	TOT. NO.	LOCATION	DESCRIPTION	No. of MISSIONS	No. & TYPE A/C	T.O.T.	PATROL AO NUMBERS	BOMB LOAD
AO-533	N-08	U-502220	4 D.P.	1	6 P-38	0755	303	2 x 1000
AO-534	P-37	U-533258	4 C.D.	1	6 P-38	0755	303	2 x 1000
AO-535	O-38	S-222509	2 C.D. Lt.	1	4 P-47	0805	104	2 x 1000
AO-536	O-25	S-236526	6 C.D.	1	4 P-47	0805	104	2 x 1000
AO-537	P-34	U-546259	3 C.D.	1	4 P-47	0805	204	2 x 1000
AO-538	P-20	U-545303	4 C.D.	1	4 P-47	0805	204	2 x 1000
AO-539	N-10	U-439121	(?) C.D.	1	4 P-47	0850	105	Incendiary
AO-540	N-27	U-402163	2 Field	1	4 P-47	0850	105	Incendiary
AO-541	N-20	U-465190	2 C.D.	1	4 P-47	0850	205	Incendiary
AO-542	N-15	U-448178	2 C.D. Med.	1	4 P-47	0850	205	Incendiary
AO-543	P-56	U-514336	4 C.D. Med.	2	6 P-38	0910 1210	304 306	Incendiary
AO-544	21	U-507376	4 C.D. Lt.	2	6 P-38	0910 1210	304 306	Incendiary
AO-545	22	U-575394	4 C.D. Lt.	1	4 P-47	0935	106	2 x 1000
AO-546	P-15	U-554370	4 C.D.	1	4 P-47	0935	106	2 x 1000
AO-547	N-29	U-287014	4 C.D. Lt.	2	4 P-47 6 P-38	0935 1510	206 308	Incendiary 2 x 1000
AO-548	N-18	Z-276958	4 C.D.	2	4 P-47 6 P-38	0935 1510	206 308	Incendiary 2 x 1000
AO-549	23	U-529372	4 C.D. Med.	1	4 P-47	1020	107	Incendiary
AO-550	P-19	U-529334	2 Fld.	1	4 P-47	1020	107	Incendiary
AO-551	N-38	U-362095	3 C.D.	1	4 P-47	1020	207	2 x 1000
AO-552	3	U-439156	Strong Point	1	4 P-47	1020	207	2 x 1000
AO-553	P-07	U-520374	4 C.D. Lt.	2	6 P-38	1040 1340	305 307	Incendiary
AO-554	P-02	U-515328	4 Fld.	2	6 P-38	1040 1340	305 307	"
AO-555	24	U-509381	4 C.D. Lt.	1	4 P-47	1105	108	2 x 1000
AO-556	25	U-520366	4 C.D. Lt.	1	4 P-47	1105	108	2 x 1000

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AERIAL OBJECTIVE NO.	TOT NO.	LOCATION	DESCRIPTION	No. of MISSIONS	No. & TYPE A/C	T.O.T	PATROL AO NUMBER	BOMB LOAD
AO-557	P-10	U-532372	4 C.D. Lt.	1	4 P-47	1105	208	Incendiary
AO-558	P-02	U-515328	4 Fld	1	4 P-47	1105	208	Incendiary
AO-559	P	Z-120908	Rd Bridge	1	6 P-38	1640	309	2 x 1000
AO-560	N	Z-115995	Rd Bridge	1	6 P-38	1640	309	2 x 1000
AO-561	R	S-308631	Rd Bridge	1	6 P-38	1810	310	2 x 1000
AO-562	S	S-306633	Rd Bridge	1	6 P-38	1810	310	2 x 1000
AO-563	T	S-305651	Rd Bridge	1	6 P-38	1940	311	2 x 1000
AO-564	R	S-308631	Rd Bridge	1	6 P-38	1940	311	2 x 1000

(5) F/B - Primary targets to be bombed, followed by armed reconnaissances outside the "Armed Reconnaissance Line" in the area TOULON (Y-930970) to BRIGNOLIA (U-015295), north to the VERDON River (U-015670) east along the VERDON River to HOUGON (U-270750) to GRASSE (S-300770) to CANNES (S-370660), strafing any enemy concentrations of troops or vehicles observed.

AO-565	Q-39	S-225515	2 C.D. Lt.	1	4 P-47	0815		2 x 1000
AO-566	Q-06	S-275542	5 D.P.	1	4 P-47	0815		2 x 1000
AO-567	1	U-524095	Strong Point	1	4 P-47	0825		2 x 1000
AO-568	20	U-441118		1	4 P-47	0825		2 x 1000
AO-569	N-17	U-446107	4 C.D.	1	4 P-47	0845		Incendiary
AO-570	N-15	U-446178		1	4 P-47	0845		Incendiary
AO-571	N-12	U-441188	4 C.D.	1	4 P-47	0955		Incendiary
AO-572	N-27	U-402163		1	4 P-47	0955		Incendiary
AO-573	22	U-575394	A C.D. Guns Lt.	1	4 P-47	1130		2 x 1000

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AERIAL OBJECTIVE NO.	TOT NO.	LOCATION	DESCRIPTION	No. of MISSIONS	No. & TYPE A/C	T.O.T.	PATROL AO NUMBER	BOMB LOAD
AO-574	P-15	U-554370	4 C.D. Guns	1	4 P-47	1130		2 x 1000
AO-575	6	U-541319	Strong Point	1	4 P-47	1310		2 x 1000
AO-576	10	U-585345	Strong Point	1	4 P-47	1310		2 x 1000
AO-577	4	U-559307	Strong Point	1	4 P-47	1320		2 x 1000
AO-578	5	U-559321	Strong Point	1	4 P-47	1320		2 x 1000
AO-579	10	U-585345	Strong Point	1	4 P-47	1330		2 x 1000
AO-580	7	U-554335	Strong Point	1	4 P-47	1330		2 x 1000
AO-581	9	U-551342	Strong Point	1	4 P-47	1400		2 x 1000
AO-582	8	U-561351	Strong Point	1	4 P-47	1400		2 x 1000
AO-583	U	U-615574	Rd. Bridge	1	8 P-47	1400		2 x 1000
AO-584	T	S-305651	Rd. Bridge	1	8 P-47	1500		2 x 1000
AO-585	Q	Z-134977	Rd. Bridge	1	8 P-47	1600		2 x 1000
AO-586	R	S-308631	Rd. Bridge	2	4 P-47	1700 1900		2 x 1000
AO-587	S	S-306633	Rd. Bridge	2	4 P-47	1700 1900		2 x 1000
AO-588	N	Z-113995	Rd. Bridge	2	4 P-47	1800 2000		2 x 1000
AO-589	P	Z-120988	Rd. Bridge	2	4 P-47	1800 2000		2 x 1000

(6) Fighter Bomber - Alternate - Targets for Armed Recces.

Armed Recces from armed reconnaissance line to target will bomb any large concentrations seen and check any reported by controller. If none seen will bomb indicated targets. Times indicated will be time over the alternate target.

AO-590	V	S-905825	Rd. Bridge	1	8 P-38	1230		2 x 1000
AO-591	W	T-540568	Rd. Bridge	3	8 P-47	1245 1630 1815		2 x 1000
AO-592	X	T-073797	Rd. Bridge	1	8 P-38	1345		2 x 1000
AO-593	Y	T-664600	Rd. Bridge	3	8 P-47	1415 1645 1845		2 x 1000
AO-594	Z	T-166733	Rd. Bridge	1	8 P-38	1430		2 x 1000
AO-595	AA	T-900616	Rd. Bridge	3	8 P-47	1445 1715 1945		2 x 1000
AO-596	AB	T-285638	Rd. Bridge	1	8 P-38	1515		2 x 1000
AO-597	AC	U-302755	Rd. Bridge	3	8 P-47	1530 1739 2015		2 x 1000
AO-598	AD	T-440613	Rd. Bridge	1	8 P-38	1545		2 x 1000

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4. Miscellaneous.

a. AO-501 and 502 besides including beach 264 A will include strong point U-585345.

b. AO-503 will include bombing road to FREJUS as well as strong point at U-561351.

c. The following alternate targets will be used in the event that the primary target has been destroyed:

(1) AO-503, 504, and 505, Road Bridge at N-886564.

(2) AO-506, 507, and 508 Road Bridge at N-913758.

(3) AO-510, 511, and 512 Rail Bridge at N-993803.

(4) AO-513, 514, 515, and 516 Road Bridge at N-981771.

d. A-20's will execute an ammunition drop to Commandos on D-Day.

e. TAC/R aircraft will be employed for spotting Naval Gunfire over the beaches throughout the operation.

5. Summary:

The implementation of this phase will involve approximately:

9 Heavy Bomber Groups - 15th Air Force
7 Medium Bomber Groups - MATAF
32 Night Intruder Sorties - XII TAC
194 Sorties - CTF - 88
464 Fighter-Bomber Sorties - XII TAC
22 Night Fighter Sorties - XII TAC

Fighters and Fighter escort sorties as required.

PHASE IV After D-Day

1. Medium bombers will attack two batteries of 14 inch coastal guns at Y-935924 and Y-938927 on D ∕ 2 and continue these attacks until the guns are destroyed.

2. Medium and Heavy Bombers will continue the destruction of road and rail bridges across the RHONE - ISERS Rivers, and that part of the DURANCE out of fighter-bomber range, until all are destroyed. They will also continue bombardment of road and rail bridges and defiles in the Alps, from their junction with the ISERE River south to the coast.

3. Medium and Heavy Bombers will also continue counter-air force operations against any operational airdromes close or affecting the "ANVIL" area.

4. Upon completion of specified missions in paragraph 2 supra the necessary percentage of heavy and medium forces will be employed in the same areas to neutralize any repaired or temporary road and rail bridges and any cleared defiles. The balance of the heavy and medium bomber force available will be employed as follows:

a. Bombardment of any important marshalling yards, including those at AVIGNON, GRENOBLE, LYON & TOULOUSE.

b. Bombardment of road and rail bridges to the North and West of the Tactical area that may be used by enemy reinforcements. The most important systems are:

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(1) Bridges across the RHONE River East from LYON.
(2) Bridges across the VISTRE - GARDE - and ARDICHE Rivers.
(3) Bridges across the GARONNE - ARIAGE Rivers.
(4) Bridges across the MIDI Canal

5. Fighter-bombers will support Naval Forces in their operations westward from the assault area to TOULON.

6. Fighter-bombers will continue to harass all enemy movement into the assault area, by armed reconnaissances over the following road nets.

a. While operating from Corsican Airfields:

(1) Marseille (T-460160) - Manosque (T-770860) - Digne (P-125065) - Nice (S-580800) - Torino (J-030270).
(2) (Without bombs) Nimes(S-630735) - Valence (O-025955) - Grenoble (J-660260) - Gap (O-975575) - Digne (P-125065) - Nice (S-580

b. After arrival on Airfields in "ANVIL".

(1) Marseilles (T-460150) - Arles (S-850550) - Montpellier (S-240460) - Toulouse (O-280450).
(2) Tarascon (S-870690) - Clermont Ferrand (W-580875) - Lyon (X-950880) - Valence (O-025955).
(3) Cannes (S-363650) - Aspremont (O-695490) - Grenoble (J-660260) - Gap (O-975575).
(4) Nice (S-580800) - Torino (J-030270) - Milano (K-250650) - Genova (O-959500).

7. Fighter-Bombers will continue the close support.

8. Fighter-bombers will continue the interdiction of communications by bombardment of road and rail bridges across the Rivers DURANCE - VERDUN - RHONE - ISERE and their tributaries. Further interdiction will be undertaken by rail cuts within the following rail systems:

a. While operating from Corsican Airfields:

(1) Toulon (Y-920980) - Marseilles (T-460150) - Aix (T-515420) - Brignoles (U-015295).

(2) Meyrargues (T-575545) - Draguignan (U-340460) - Grasse (S-300780) - Digne (P-125065).

(3) Cannes (S-363650) - Gunio (N-870550) - Sevona (O-600400) - Nice (S-580800)

(4) Aix (T-515420) - Sisteron (O-880170).

b. After arrival on airfields in "ANVIL"

(1) Marseilles (T-460160) - Arles(S-850550) - Avignon (S-980865) - Marseilles (T-460160).
(2) Arles (S-850550) - Toulouse (O-280450) - Rodez (N-190285) - Ales (N-395040) - Avignon (S-980865)
(3) Avignon (S-980865) St. Etienne (X-610510) - Lyon (X-950880)- Grenoble (J-660260) - Sisteron (O-880170).

9. The following night intruder routes will continue in force until the fall of TOULON:

a. Cannes(S-363650) - Digne (P-125065) - Gap (O-975575) - Aspermont (O-695490) - Digne (P-125065) Nice (S-580800).
8 sorties during hours of darkness.

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b. Toulon (Y-920980) - Brignoles (U-015295) - Aix (T-515420) - Porcalquier (T-760900) - Avignon (S-980865) - Mimes (S-630735) - Marseilles (T-460150).
8 sorties during hours of darkness.

c. Toulon (Y-920980) - Aix (T-515420) - Avignon (S-980865) - Montelimar (N-925540) - Tarascon (S-870690) - Aix (T-515420) - Toulon (Y-920980).
8 sorties during hours of darkness.

d. Nice (S-580800) - Torino (J-030270) - Allessandra (J-760060) - Savona (O-600400).
6 sorties during hours of darkness.

e. Coast road from Savona (O-600400) to Nice (S-580800)
2 sorties during hours of darkness.

10. Summary:

a. The implementation of this phase will involve approximately:

Heavy Bomber Group missions as required - 15th Air Force

7 to 14 Medium Bomber Group Missions - MATAF

600 Fighter-Bomber Sorties - XII TAC

32 Night Intruder Sorties - XII TAC

Fighter and Fighter Escort sorties as required - XII TAC

b. Considerable flexibility to meet changes in enemy disposition or the tactical situation is retained through the method of scheduling Fighter-Bomber effort.

By command of MAJOR GENERAL PATCH:

A. A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:
/s/ J. S. Guthrie
JOHN S. GUTHRIE, JR.
Colonel, GSC,
A. C. ofS., G-3.

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HEADQUARTERS SEVENTH ARMY
A. P. O. # 758

ANNEX NO. 6
TO FIELD ORDER NO. 1, ANVIL

24 July 1944

SIGNAL ORDERS

Maps: South of 44 degrees north and east of 2 degrees east, 1/25,000, GSGS 4411.
FRANCE, 1/50,000, GSGS 4471.
FRANCE, 1/100,000, GSGS 4249.
FRANCE, road maps, 1/200,000, GSGS 4238.
FRANCE, 1/250,000, GSGS 2738.
Target Area Beach Panoramas.
All important towns south of 47 degrees, town plans.
Touring guide for southern FRANCE, throughway town plans.
Collation maps, 1/25,000.
EUROPE, 1/1,000,000, GSGS 2758.
EUROPE, 1/4,000,000, GSGS 2957.

1. a. The Seventh Army, consisting of the VI U.S. Corps, II French Corps, 1st Airborne Task Force, and attached troops, supported by the Naval Western Task Force, and by the XII Tactical Air Command, will move by sea to seize and occupy a beach-head east of TOULON as a base for the assault and capture of TOULON.

b. Initial seaborne assault by the VI U.S. Corps consisting of the 3d, 45th, and 36th U.S. Infantry Divisions. The 1st Airborne Task Force will support the operation by airborne assault prior to H Hour.

c. (1) Initial Command Posts.

(a) Seventh Army:

(1) Afloat: U.S.S. HENRICO (Command Post).

U.S.S. CATOCTIN (Advance Command Post).

(2) Ashore: Vicinity of ST TROPEZ.

(b) II Corps:

(1) Afloat: S.S. BATORY (LSP).

(2) Ashore: Vicinity COGOLIN.

(c) VI Corps:

(1) Afloat: U.S.S. CATOCTIN.

(2) Ashore: Vicinity STE MAXIME.

(2) Axes of Signal Communication:

(a) Seventh Army: ST TROPEZ - TOULON.

(b) II Corps: COGOLIN - LA LONDE - TOULON.

(c) VI Corps: STE MAXIME - LE LUC - BRIGNOLES.

d. Existing communication facilities which may be available in enemy territory are listed in Inclosures to these Signal Orders as follows:

Radio -- Inclosure No. 2 to Annex No. 6, Field Order No. 1, ANVIL
Wire -- Inclosure No. 3 to Annex No. 6, Field Order No. 1, ANVIL
Power -- Inclosure No. 4 to Annex No. 6, Field Order No. 1, ANVIL

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2. a. Signal units listed in Inclosure No. 1 to this Annex will provide communication for Seventh Army afloat and ashore in accordance with AFHQ Signal Instructions and Seventh Army SOI and SOP as modified by this Signal Order. Communication between shipping and landing craft during the assault is under Navy jurisdiction.

3. Seventh Army Signal Units will be employed as follows:

a. U. S. Units

(1) The 117th Signal R.I. Company (less Detachment A) in conjunction with Detachment B 849th Signal Intelligence Service will intercept enemy radio traffic and locate enemy radio transmitters under the supervision of the Seventh Army G-2.

(2) Detachment B, 849th Signal Intelligence Service will forward to Seventh Army G-2 all intelligence derived from operations of the 117th Radio Intelligence Company (less Detachment A).

(3) 207th Signal Depot Company will provide three (3) Storage and Issue Sections, attached to the Beach Control Group, for operation of Signal Supply activities of three beach dumps. The remainder of the Company will establish a Signal depot in the vicinity of the main port as instructed by the Signal Officer, Seventh Army.

(4) 206th Signal Depot Company will assist the 207th Signal Depot Company in the establishment of the main Signal depot.

(5) 590th Signal Depot Company on arrival in assault area will report to the Signal Officer, Seventh Army for instructions.

(6) 177th Signal Repair Company will provide three Repair Teams attached to the Beach Control Group. These detachments, working with the Storage and Issue Sections of the 207th Signal Depot Company will repair Signal equipment received from troops or damaged in shipment. The remainder of the company will establish a Signal repair shop in the vicinity of the main Signal depot, and prepare to dispatch mobile repair teams as directed by Signal Officer, Seventh Army.

(7) 163rd Signal Photographic Company, under direction of the Army Signal Officer and in accordance with existing AFHQ photographic policies, will provide photographic coverage for the Army.

(8) 1st Signal Battalion will provide personnel to operate communications aboard the U.S.S. HENRICO and personnel to augment the permanent Signal Corps Detachment aboard the U.S.S. CATOCTIN while the Seventh Army CP is afloat. Upon arrival in the target area, the 1st Signal Battalion will install, operate and maintain the Communication system of Seventh Army Headquarters.

(9) 28th Signal Construction Battalion will rehabilitate open wire circuits, establish necessary oil pipe line circuits, and establish any needed railroad circuits in the target area.

(10) 27th Signal Construction Battalion will report to the Signal Officer, Seventh Army for instructions on construction, rehabilitation, and maintenance of fixed wire system.

(11) 71st Signal Company, Special will install, operate, and maintain communications system as directed by the Signal Officer, CAMEL Beach Group.

(12) 72nd Signal Company, Special will install, operate, and maintain communication system as directed by the Signal Officer, ALPHA Beach Group.

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(13) 74th Signal Company, Special, will install, operate, and maintain communication system as directed by the Signal Officer DELTA Beach Group.

(14) 226th Signal Operations Company will install, operate, and maintain communications as directed by Commanding Officer, Beach Control Group. Upon release from Beach Control Group, estimated at D plus 30, this unit will operate communications of Rear Echelon, Headquarters Seventh Army.

(15) 250th Signal Operations Company will operate Base communications installations as directed by the Base Signal Officer.

(16) 248th Signal Operations Company initially will install, operate, and maintain wire communications as directed by the Signal Officer, Seventh Army, and later as directed by the Base Signal Officer.

(17) 239th Signal Operations Company initially will operate communications system for Rear Echelon and Near Shore Control, Seventh Army prior to D Day. Upon arrival in the target area this unit will operate fixed plant in MARSEILLES until replaced by 250 Signal Operation Company.

(18) 814th Signal Service Company (Port) on arrival in target area will report to Signal Officer, Seventh Army for instructions on installation, operation, and maintenance of port communications.

(19) 994th Signal Service Company (Port) on arrival in target area will report to Signal Officer, Seventh Army for instructions on installation, operation, and maintenance of port communications.

(20) 982nd Radio Service Company will furnish a detachment to assist the 1st Signal Battalion in providing radio communication afloat and ashore during the assault phase. In addition, one SCR-299 team will be attached to 163rd Signal Photo Company and one SCR-299 team to rear echelon, 1st Airborne Task Force. The remainder of the company will move as a unit to the target area and report to Signal Officer, Seventh Army for instructions.

(21) 2650th Radio Relay Company on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(22) 6681st Pigeon Company, Detachment, on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(23) First Signal Center Team, attached to VI Corps, will provide Signal Center liaison as directed by VI Corps Signal Officer.

(24) Fifth Signal Center Team on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(25) 6759th Signal Detachment, Overhead, will provide communications for U. S. Liaison Group at French I Corps.

(26) 6693rd Signal Detachment, Overhead, will provide communications for U. S. Liaison Group at French II Corps.

(27) 72nd Liaison Squadron (less one Flight) will provide air messenger service for Seventh Army.

(28) 315lst Signal Information and Monitoring Company, operating in Detachments, will monitor friendly Corps and Division radio nets for tactical information and violations of Signal Security. Tactical information so obtained will be transmitted by radio for the information of G-3 of all units with which SIAM detachments are operating. Violations of signal security will be reported to the Signal Officer of the unit to which attached, and to Signal Officer, Seventh Army.

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(29) 6737th Detachment, Inspection and Maintenance (Prov) upon arrival in the target area, will report to Signal Supply Officer, Seventh Army for instructions.

(30) Detachment, 1st Type C Platoon, Signal Photo Mail Company (B) will process v-mail under the supervision of Postal Officer, Seventh Army.

(31) ADLS Detachment, ADLS Service, AFHQ, attached to 1st Signal Battalion will provide ADLS service as directed by Signal Officer, Seventh Army.

b. French Units

(1) 61st Signal Battalion will construct, operate, and maintain II French Corps communications as directed by II French Corps Signal Officer.

(2) 66th Signal Battalion will construct, operate, and maintain French I Corps communications as directed by I Corps Signal Officer.

(3) 806th Signal Construction Battalion on arrival in target area will report to Signal Officer, II French Corps for instructions.

(4) 826th Signal Construction Battalion on arrival in target area will report to Signal Officer, II French Corps.

(5) 812th Signal Construction Battalion on arrival in target area will report to Signal Officer, II French Corps.

(6) 808th Signal Radio Intelligence Platoon and 838th Signal Radio Intelligence Company will locate enemy radio transmitters by radio goniometry, will intercept enemy radio transmitters, and will forward all intelligence so obtained to G-2, II French Corps.

(7) 841st Signal Depot Company initially will provide one (1) Storage and Issue Section to accompany and perform Signal Supply service for the 1st Infantry Division (Fr) and one Storage and Issue Section to accompany and perform Signal Supply service for the 3d Algerian Infantry Division (Fr). These sections will be withdrawn later to establish Army Supply Points as directed by Signal Officer, Seventh Army. The remainder of this company will assist in the establishment of a Signal Depot in the vicinity of the main port as directed by Signal Officer, Seventh Army.

(8) 842nd Signal Depot Company on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(9) 810th Signal Repair Company will provide two (2) Repair Detachments, each composed of two (2) Radio Repair Teams and one (1) Wire Repair Team, to be attached one (1) each to the 1st Infantry Division (Fr) and the 3d Algerian Infantry Division (Fr). These Repair Detachments initially will work with the Storage and Issue Sections of the 841st Signal Depot Company in repairing damaged Signal equipment received from troops or damaged in shipment. These Repair Detachments will be withdrawn and returned to their parent organization when normal supply and repair facilities are established. The remainder of the Company on arrival in the target area will proceed to the vicinity of the main port to assist in the establishment of a Signal Repair shop. They will report to Signal Officer, Seventh Army for detailed instructions.

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(10) 830th Signal Repair Company on arrival in the target area will proceed to the Signal Repair Shop in the vicinity of the main port and will report immediately to Signal Officer, Seventh Army for detailed instructions.

(11) The following units on arrival in target area will report to Signal Officer, II French Corps:

837 Signal Pigeon Platoon
807/1 Signal Operations Company
827/1 Signal Operations Company
839 Signal Installations Company
829 Signal Installations Company
809 Signal Installations Company

3x (1) Message Centers and Air Messengers - See Message Center and Air Messenger Plan, Inclosure No. 8 to these Signal Orders.

(2) Radio Communications - See Radio Plan, Inclosure No. 5 to these Signal Orders.

(3) Visual Communication - See current Seventh Army Signal Operation Instructions.

(4) Wire Communication - See Wire Plan, Inclosure No. 6 to these Signal Orders.

(5) Cryptographic Instructions - See Cryptographic Plan, Inclosure No. 7 to these Signal Orders.

(6) Photographic Service - Photographic detachments will cover U.S. and French divisions and higher units. Photographic personnel will carry official War Photographer identification cards. Commanders will allow official photographers complete freedom of movement, and will render all possible assistance to them in the performance of their assigned duties.

4. Signal Supply Service

a. Signal Storage, Issue, and Requisition.

(1) A Signal Depot will be established in the target area initially under control of Signal Officer, Seventh Army, and later under control of Signal Officer, Base Section. It is the responsibility of the controlling officer to distribute Signal supplies forward to Army Depots which in turn will distribute Signal supplies to forward Army Supply Points for both U. S. and French Armies, Corps, and Divisions.

(2) Requisitions will be submitted thru Supply channels direct to Supply Points with a copy of each to Signal Officer, Seventh Army.

(3) Signal equipment and supplies peculiar to the Air Force will be the responsibility of XII Air Force Service Command.

b. Signal Repair (Maintenance)

(1) First and second echelon maintenance for U.S. and French units will be the responsibility of using units.

(2) Succeeding echelons of maintenance will be performed by Signal Repair and Depot Companies.

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INCLOSURE NO. 1 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

SEVENTH ARMY SIGNAL TROOP LIST

U.S. SIGNAL UNITS

1st Signal Bn
28 Sig Const Bn
27 Sig Const Bn
57 Sig Bn (Corps)
71 Sig Co Spec
72 Sig Co Spec
74 Sig Co Spec
117 Sig RI Co
163 Sig Photo Co
177 Sig Repair Co
207 Sig Depot Co
206 Sig Depot Co
590 Sig Depot Co
226 Sig Opn Co
250 Sig Opn Co
248 Sig Opn Co
239 Sig Opn Co
814 Sig Serv Co Port
994 Sig Serv Co Port
982 Sig Serv Co Radio (less Det)
2650 Radio Relay Sta (Prov)
Det 6681 Sig Pigeon Co
3151 Sig Monitoring Co
6737 Sig Insp and Maint Det (Prov)
1 Sig Center Team (Fr)
5 Sig Center Team (Fr)
6759 Sig Det Overhead
6693 Sig Det Overhead
849 SIS Det (Type A Ger)
3201 Sig Intel Det (Type B Ger)
Det 1st Type C Plat Sig Photo Mail Co
72 Liaison Sqdn (less 1 Flight)

FRENCH SIGNAL UNITS

61st Corps Sig Bn
66th Corps Sig Bn
806th Sig Const Bn
826th Sig Const Bn
812th Sig Const Bn
837th Sig Pig Plat
838th Sig RI Co
808th Sig RI Plat
807/1 Sig Opn Co
827/1 Sig Opn Co
810th Sig Rep Co
830th Sig Rep Co
841st Sig Dep Co
842nd Sig Dep Co
839th Sig Inst Co (Tg)
829th Sig Inst Co (Tg)
809th Sig Inst Co (Tg)

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(3) Maintenance of communications equipment issued to Air Forces will be an Air Force responsibility.

(4) All units authorized echelon repair will draw and carry thirty (30) days supply of expendable spare parts prior to embarkation. No supply of such parts will be available for issue in the assault area until D + 30.

5. See Index No. 1 - 11 to Signal Operation Instructions, Seventh Army.

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brig. Gen., USA,
Chief of Staff.

OFFICIAL:

JOHN S. GUTHRIE,
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Complete distribution to accompany Field Order.

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INCLOSURE NO. 2 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

ENEMY FIXED RADIO STATIONS

All map sheet numbers and coordinates refer to map GSGS-4040B unless otherwise noted.

Place: On a high point on Cap d'Armes on the S.Coast of Ile de Porquerolles.
Details: A lighthouse consisting of a tower standing on a square building. No masts or aerial arrays can be seen.

Place: 1 mile N.E. of the center of Hyeres; S.W. of the Golf Hotel.
Position: 248SW - 096995.
Details: Radio-telegraph station. Two antenna masts.

Place: Three miles due E. of Hyeres.
Position: 248SW. Grid refs. I 134984 II 132983.
Details: Radio-telegraph station.

Place: Viet. Two and one half miles N. of Hyeres.
Position: 248NW - 083026.
Details: Radio-telegraph stations. Two sixty foot masts. Personnel consists of two officers and twenty-five men.

Position: 239078 - 247079 map XXXIV-45. Map of Southeast FRANCE, 1/50,000.
Details: Six towers. Possibly radio or radar.

Position: 979968 map XXXIII-46 384. Map of Southeast FRANCE, 1/50,000.
Details: Probable radar apparatus.

Place: Toulon/La Cran.
Details: Radio-telegraph station. 31 antenna masts from 55 to 800 feet in height are in use. Several buildings. Transmitters communicating with submarines. In German hands since 27 November 1942.

Place: Toulon. In the Marine Prefecture, Place d'Armes.
Details: Radio-telegraph. Central receiving and transmitting with remote control of the transmitters at Mourillon and La Cran. In German hands since 27 November 1942.

Place: Toulon. On the quay of submarine boat station N. of the Canal du Mourillon.
Details: Radio-telegraph station. Has been the main naval, short, medium and long wave transmitting station for many years. Remotely controlled from the Marine Prefecture or from Fort Lamalgue. Three self supporting masts 224' high. Operating buildings are in a walled enclosure between the masts. In German hands since 27 November 1942.

Place: Toulon. At Fort Lamalgue.
Position: 248SW - 937966.
Details: Radio-telegraph station. Intended as a substitute station for the one at the Marine Prefecture. In German hands since 27 November 1942.

Place: Toulon. At N.E. end of the battery on the Pointe de Pipady S. of Toulon.
Position: 248SW - 926958.
Details: One lattice mast and one building. Described as "Radio goniometrique de la Mitre". Controlled from Fort Lamalgue.

Place: Cepet. Transmitters 400 yards E. of the St. Mandrier aeradio station. Receivers S. of Cape Cepet.
Position: Transmitters 248SW - 932930. Receivers 939921.
Details: Radio-telegraph, CW and MCW. D/F Station (maritime).

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Place: St Raphael/Frejus. On the road passing the "Lanterne d'Auguste" leading to the Frejus beach promenade almost opposite the water-distilling plant.
Position: 237SW - 578346.
Details: Radio-telegraph. Probably operated from a square shaped house near a 30' aerial. The house is connected to the seaplane base by an overhead wire.

Place: St Henri; at a place called La Bie (not shown on map); just SW of St Henri.
Position: Approximately 235SW - 428220.
Details: Radio-telegraph station. No details.

Place: Aix-En-Provence on the Boul. Zola in the NE part of the town, in a former school.
Details: Radio-telegraph station. Naval CP or Hq.

Place: Aix-En-Provence. At Pigonnet, in the S.W. outskirts of Aix, just behind the asylum, on the roof of which Red Crosses have been painted.
Position: 235NW - 508404.
Place: At a place called Les Platrieres, 2 miles N.N.W. of Aix, on the road to Avignon.
Position: 235NW - 498438.
Details: Both stations probably S.W. with 30 KW input power available. The second station is barbed-wire enclosed and under constant guard.

Place: Cap Camarat.
Position: 248NE - 525093.
Details: Coast watcher radar. Within an emplacement near the lighthouse and Semaphore station on the cape.

Place: Toulon. 100 yards S.W. of lighthouse at Pte. Rascas, on peninsula 3 miles south of Toulon.
Position: 248SW - 938917.
Details: Possible radar of coast watcher or Freya type. On high point of land, 150' - 200' above sea level, steep slopes toward the sea. About 300 yards S.W. of the battery Haute du Cap Cepet. Heavily defended. At immediate site there is a light 3-gun battery and a 4-gun c/d battery.

Position: 915918 map XXXIII-46 586.
Details: Radar coast-watcher.

Position: 888921 map XXXIII-46 586.
Details: RGL with the DP battery.

Position: 868892 map XXXIII-46 586.
Details: Probable radar. Two buildings with station.

Position: 935931 map XXXIII-46 7 & 8.
Details: Radar apparatus (Possible Wurzburg).

Place: La Ciotat. In a villa facing the sea, next to the "Mairie". Information from other sources reports a transmitting station on the highest hill at the back of the town.
Position: 247NE - 661025.
Details: Radio-telegraph station.

Place: St Vallier, 13 miles N.N.W. of Cannes.
Position: 225SW - 635654.
Details: Said to be a 5 KW transmitting station, supplied power from the station at La Siagne, and formerly used by the Italians for communications with Corsica.

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Place: Antibes in the area bounded by the stream "la Brague", the R.N. 7 from Antibes to Nice and the road branching off it and leading to Biot; 2 miles N. of Antibes.
Position: 237NW - 862568.
Details: Broadcasting station, PTT Nice-Cote d'Azur. Surrounded by barbed-wire and under constant guard. Three AA and three antitank guns to the N.W. at approximately 849582. Single mast 348' high with a small building at the foot. This building is connected by cable with a group of buildings.

Place: Antibes. On the plateau Fleuri (plateau Saint-Jean), 1 1/4 mile W.N.W. of the center of Antibes and 2 miles S.W. of the Nice-Cote d'Azur Broadcasting station.
Position: 237NW - 843541.
Details: Broadcasting station. Private; known as "Radio Mediterranee", 25 KW on 1321 KC's.

Place: Antibes at the seaplane base, immediately N. of Antibes, on the W. side of the harbour.
Position: Transmitting 237NW - 865541. D/F receiving 867546.
Details: Aeradio and D/F.

Place: Cagnes-Sur-Mer. Close to the shore 3/4 mile S.E. of Cagnes-Sur-Mer, 2 miles S.W. of St Laurent and about 600 yards N.E. of the mouth of the Cagnes river.
Position: 225SE - 887620.
Details: Radio-telegraph, MCW. Two 90' lattice masts 230' apart, small building between masts.

Place: Cagnes-Sur-Mer at the Chateau on the top of the hill on which Cagnes is situated.
Position: 225SE - 8763.
Details: Radio-telegraph and D/F. Stated to be a D/F array on the roof and a radio-telegraph transmitter and receiver in the cellar.

Place: One mile E.S.E. of Cagnes-Sur-Mer, 1 1/2 miles S.W. of St Laurent and 1 mile N.E. of the mouth of the Cagnes river.
Position: 225SE - 895626.
Details: Radio-telegraph. Single mast, large building with a tower capable of supporting one end of an antenna.

Place: Nice/La Californie. North of the road bounding the airfield located 3 1/2 miles S.W. of Nice, on the coast and about 1,000 yards S.E. of Route Nat. No. 7 and the main Cannes-Paris railway.
Position: 225SE - 933631.
Details: Radio-telegraph, German Air Force. Two dismountable aerials and apparatus in a small house just east of them.

Place: Marseille.
Position: On the top floor of the works of Lagier and Co. 2, Place General Ferrie. Just S.E. of the Gare du Prado.
Details: Probable jamming station. There are said to be 16, 500 W. transmitters with inefficient operators.

Place: Marseille, at the Filley barracks, 34 Montee de l'Observatoire. The Observatory is 3/4 mile W.N.W. of the Gare St Charles, in the N. part of the Zoological Gardens, just S.W. of an aqueduct.
Position: 247NW - 480163.
Details: Army radio-telegraph station. In May 1943 station was said to have been closed by the Italians and could be restored within an hour. A Mr. Delfosse, of unknown sentiments, residing at 210 Bvd. de la Corderie was stated to be acquainted with the installation. The Range was said to be 400 Km.

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Place: Marseille at the Villa l'Angelus in the Chemin Du Roucas Blanc.
Position: 247NW - 458142 - 459124.
Details: Stated to be a powerful radio-telegraph station. Important AA Hq in the Villa.

Place: Marseille on the Quai des Anglais, W. of the Bassin de la Gare Maritime.
Position: 247NW - 449172.
Details: Radio-telegraph (coastal?), 1 or 3 KW on 368-500 KC's. CW or MCW. Two 140' square-sectioned, tapering, lattice masts, 262' apart. Three buildings on the Quai are probably the operational buildings.

Place: Marseille/Realtort at the southern end of the Realtort reservoir, on the road from Aix-En-Provence to Marignance; about 20 Km NNE of Marseille.
Position: 235SW - 419334.
Details: Broadcasting station. 100 KW on 749 KC's. One tall square antenna mast, several buildings. Considerable installation equipment data is available.

Place: Marseille/Marignane 1/2 mile E. of Etand de Bolmon, 1/4 mile S.W. of Marignane.
Position: 335SW - 326279.
Details: Aeradio, D/F and Radio-beacon. 4 masts, laid out in the form of a diamond, with two buildings between the masts.

Place: Marseille/Marignane.
Position: 235 SW - 328313.
Details: A single tapering lattice mast within a walled enclosure with a 28' square camouflaged building. A former French radio-telegraph station. The Germans have installed a radio-telegraph and D/F station 300 yards to the E.N.E.

Place: Sospel.
Position: 225 NE. a. 088885, 1 mile W. of Sospel. b. 065877, Col de Brans. c. At pointe de 3 Communes - 8 1/2 miles N. of Sospel. d. Approximately 0494 - at Peira Cava.
Details: These stations were manned by Italians; it is not known whether they are still in existence.

Place: Cap Martin at the semaphore station.
Position: 225SE - 144741.
Details: Naval personnel of 20 including 6 radio-telegraph operators (short-wave). Transmitter said to be at Mont Agel.

Place: Marseille. Within the Fort at Mont Rose, 4 1/2 miles SSW of Marseille.
Position: Pin point not given.
Details: Radar station with adjacent Giant Wurzburg 45 yards S.W.

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INCLOSURE NO. 3 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

ENEMY WIRE COMMUNICATIONS

1. General

a. The whole of the civil telephone and telegraph system in FRANCE is under the control of the State and administered by the Ministere des Postes, Telegraphes et Telephones, now called the Ministry of Communications.

b. The Telephone and Telegraph networks are almost identical and almost every commune has both services.

c. Southern FRANCE before its occupation had extensive communication facilities. The Germans have supplemented these but information is slight.

d. There are approximately 13,000 km. of underground cables now in FRANCE. Some of the later developments were the result of demands made by the French general staff and of work carried out by the Germans to build up the defense system.

e. Military personnel are on guard at all the various telephone and telegraph systems. It can be assumed that these guards are also trained in the destruction of the equipment and that extensive damage can be anticipated.

f. The enemy is known to make special efforts to mine and booby-trap communication equipment, so extra precautions must be taken to prevent casualties to personnel from these agencies.

2. Telephone Exchanges

a. Equipment

(1) Over half the exchanges in FRANCE are manual, of central battery and magneto types, but these have less than half the subscribers. There are also many rural dial and semi-automatic exchanges. Both manual and semi-automatic centrals may use magneto telephones. Most semi-automatics are of Thomson-Houston make. Automatic exchanges used widely in southern FRANCE are largely of the R-6 type, employing a single-motion ratchet driven switch. Le Materiel Telephonique (LMT), an ITT subsidiary, has supplied much of the telephone and other equipment used in France. In addition there are R.7-A rotary type systems, R.7-D rotary type systems, and a few Strowger systems being used.

b. Organization

The inter-urban telephone network is organized into several classes of bureaus: centers of transit, of distribution, of groups, and the local bureaus. The local bureau connects its own subscribers with each other, with the group center, and perhaps directly with another bureau. The group center makes trunk connections for all communications in the zone it serves, with the exception of calls exchanged directly by local bureaus. The distribution center is intermediary between the group center and the transit center, and is often lacking. There are about thirty centers of transit in FRANCE, of which five are key centers of transit: PARIS, LYON, MARSEILLE, BORDEAUX, and STRASBOURG. The key centers are all connected by direct trunk circuits: a center of transit can reach any other by direct special circuit, or through a single key transit center.

c. Automatic Exchanges

The cities listed below have either local automatic or rural automatic

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City	Location of Exchanges	Remarks
Lyons	The German's use part of the "Moncey" automatic exchange	———
Marseille	(1) German Hq at Hotel Province, 16 Cours Belsunce	Direct Telephone lines to Berlin & important occupied countries.
	(2) Exchange at 117 Blvd Perier	———
	(3) Chateau at 16 Traversee Pomegues in Bonneveine	German naval communications svc supply depot.

Note: The Colbert exchange will probably be destroyed in case of invasion and emergency exchanges have been prepared as follows:
(1) Roucas Blanc in large Bldg near the Vierge de la Garde.
(2) Hotel de L'Ermitage on the Corniche. (3) In the Rochos property at St. Antoine near the RR bridge over RN8.

Martiques	(1) Hotel St. Anne	Wehrmacht Hq
	(2) In Paradis, just outside Martiques	
Millan	PTT Bldg plus small exchanges at Hotel du Midi, Place de la Gare and at L'Hotel Terminus adjoining the station	———
Montelimar	Hotel du Commerce	———
Montfrin	Chateau de Montfrin	60 lines
Montpellier	Basement of the PTT Bldg	———
Narbonne	In cellar behind Grand Hotel, Blvd Gambetta	———
Nimes	(1) Basement of PTT Bldg	———
	(2) Hotel Imperator, rue Gaston Boissier	24 lines
Perpignan	Basement of the Hotel des Postes in the Quai de Barcelone	———
Pont du Gard	1st Floor of L'Hotel Sud	———
Privas	In the Kommandantur	25 lines
St Flour	In the gardens behind the offices of Place Alfred Bert	———
Toulon	German Air Force Hq in the school in the rue Torkin	30 lines
Toulouse	Hotel des Postes, rue des Postes between rue Remusset and rue Alsace Lorraine	Direct lines to Marseille, Beziers, Montpellier, Lezignan, Cahors, Bordeaux and Foix.
Vichy	(1) Hotel Carlton, 26 rue du President Wilson	———
	(2) Hotel Majestic, 6 rue Petit	———
	(3) Hotel Radio, 15 rue Des Nations	———

Note: Since the French Armistice a great many street names seem to have been changed. It cannot be guaranteed that the street names given are always the current ones.

3. Submarine Cables

Submarine cables exist between the points listed below:

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City	Location of Exchanges	Size
Clermont-Ferrand	2d floor, Place de Lille	46 pos., 390 ckts.
Limoges	rue Edouard Vaillant	34 pos., 250 ckts.
Lyons	rue Franklin corner of Place Ampere	———
Marseille	Hotel des Postes, rue Colbert	56 positions
Montpellier	52 rue de Toulouse, formerly ave. G. Clemenceau	———
Nice	Hotel des Postes, ave Thiers & Rue Gounod	———
Perpignan	Hotel des Postes in the Quai de Barcelone	———
Vichy	Place de la Republique	23 pos., 110 ckts.

e. Manual exchanges

There is no information available as to locations or details of equipment of manual exchanges.

f. German exchanges

The following telephone exchanges in the German military wire system are known to exist:

City	Location of Exchenges	Remarks
Agen	Hotel des Postes, ave Marechal Petain-formerly ave President Carnot	———
Annecy	(1) Hotel Splendid	———
	(2) Hotel Carlton	———
Arles	German Hq between Blvd des Lices & rue Emile Fassin	———
Aubagne	1st floor, No. 21 in the square next to the tramway terminus	———
Avignon	(1) Hotel Haitens, 81 rue Vernet (main Hq)	———
	(2) Hotel d'Angleterne, 29 Blvd Raspail	———
	(3) Paul Lyon's Lingerie Shop in the rue du Vieux Sectiers	———
	(4) German Hq, Chateau Blanc.	Serves Aix, Orange & Avignon
Carcassonne	(1) No. 2 rue de Verdun	———
	(2) Basement of the Hotel des Postes, rue de la Prefecture	———
Frejus	(1) There are 12 telephone lines from the hotel rue Parc to Nice	———
	(2) Hotel Azur at the crossing of Frejus-St Maxime roads	Serves Frejus aerodrome & communicates with Berlin
Grasse	In the Maison Bernard, quartier de Roquevignon	
Grenoble	Mil. Swbd in basement of PTT Bldg & an exchange at Caserne de Bonne	———
Hyeres	(1) In the Vieux Chateau	———
	(2) In cellar of the Bar Palais, 5 Ave Marechal Petain	———
La Palisse	Exchange about 100 m. out of the La Palisse on north side of road to Moulins	———
Limoges	In the Uni Club corner of Blvd de Fleurus & the rue du 71 ere Mobile	———

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exchanges. Information is not available for those cities not listed.

City	Location of Exchange	Type	No. of lines
Agen	Blvd Scaliger, 200 M. W. of Repeater station	R6	———
Antibes	PTT Bldg, rue Lacan & Blvd Paul Doumer	R6	———
Beziers	———	R6	———
Cannes	———	R6	———
Carcassonne	1st floor, Hotel des Postes, rue de la Prefecture	R6	1,500
Clermont-Ferrand	2d floor, Place Delille (probably) in the Mairie, Place Formige	R6	———
Grasse	Hotel des Postes, Place Ossola	R6	———
Hyeres	———	R6	———
Limoges	Rue Edouard Vaillant	R6	———
Lyons (6 auto exchgs)			
(1) Burdeau	Rue Burdeau	R6	10,000
(2) Franklin	Rue Franklin corner of Place Ampere	R6	6,500
(3) Lalande	Rue Lalande	R6	10,000
(4) Moncey	Rue Edison	R6	7,000
(5) Parmentier	Rue Edison	—	———
(6) Villeurbanne	Ave Henri-Barbusse, Marseilles (5 auto exchgs)		
(1) Colbert	Hotel Des Postes, rue Colbert	7A	11,500
(2) Dragon	———	7A	9,000
(3) Lycee	———	—	———
(4) National	———	—	———
(5) Garibaldi	———	—	———
Monaco	Corner of rue Caroline & rue Crimaldi	R6	———
Montpellier	52 rue de Toulouse, formerly ave G. Clemenceau	R6	3,000
Narbonne	Hotel des Postes, Blvd Gambetta	R6	———
Nice (2 auto exchgs)			
(1) Central	Hotel des Postes, ave Thiers & rue Gounod	R6	7,000
(2) Fabron	———	R6	———
Nimes	———	R6	2,000
Perpignan	Hotel des Postes in the Quai de Barcelone	R6	———
Roanne	———	R6	———
St Etienne	———	R6	6,000
St Tropez	———	R6	———
Toulon	P.T.T. Bldg. rue Guiol (?)	R6	2,400
Toulouse (2 auto exchanges)			
(1) Local automatic	Hotel des Postes, rue des Postes, bewteen rue Remusat and rue Alsace Lorraine	R6	———
(2) St. Aubin	PTT Bldg Blvd Riquet & rue des Ecoles	R6	———
Vichy	Place de la Republique	R6	———

d. Trunk Exchanges

City	Location of Exchanges	Size
Beziers	———	40 pos., 300 ckts.
Cannes	———	23 pos., 115 ckts.
Carcassonne	1st floor, Hotel des Postes, rue de la Prefecture	———

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(1) Information of location of landing point not available.

(2) One single core cable total length 85.629 nautical miles, to GENOA, Italy.

b. ANTIBES

(1) Landing point, just north of Fort Carre. Landing is marked by two beacons painted with white and blue horizontal bases and surmounted by white discs.

(2) One single core cable, total length 129 nautical miles, runs to S. FLORENT, Corsica.

c. CANNES - ILES DE LERINS

(1) Two cables, one single core and one twin core, run from Pointe de la Croisette (south to Counes) to ILE SAINTE MARGUERITE where they are landed just east of the Citadel. Beacons of the same type as in (b) above mark the landing points. The twin core cable is probably a telephone cable.

(2) One single core cable runs from the south side of Ile Sainte Marguerite from a point about 300 yards west of the mast in Le Grand Jardin to ILE SAINTE HONORAT where it lands roughly in the center of the north shore. This is probably a telephone cable.

d. HYERES

(1) One single core cable runs from Cap Benat at the eastern side of Rade d'Hyeres to ILE DU LEVANT where it is landed at Cap Laisset.

(2) One single core cable runs from Cap Benat to ILE DE PORT CROS where it lands near Pointe de la Galere.

(3) Three single core cables run from Points de la Tour Fondu on the south coast of Presquile de Giens at the western side of Rade d'Hyeres to ILE DE PORQUEROLLES just east of Pointe Sainte Anne. One of these is probably a telephone cable.

e. TOULON

(1) One single core cable runs from Sablettes Bay (S. of the Lazaretto of Toulon) to Ajaccio in Corsica. The landing in Sablettes Bay is marked by beacons on a bearing 024°.

(2) This cable reported cut in August 1943.

f. MARSEILLE

(1) The British cables are landed on Bonneveine beach approximately 500 yds s. of the mouth of L'Huveaune river. There is no hut on the beach as the cables are there connected to twin core cables which cross the road and run across the race course and Parc Borelli to the cable house at the N.W. corner of the Parc backing on to the river.

The following cables land here:

(a) One single core to Barcelona. Recently reported broken.

(b) Two single core cables to Bone. Both cut.

Note: The engineer at the station reports that in addition to being cut at sea these three cables have been cut at the cable house and sealed off.

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(2) The French cables are landed at a point about 700 yds. north of the mouth of L'Huveaune river near the swimming pool on Plage du Prado. They consist of the following lines:

(a) Two single core cables to Oran.

(b) Three single core cables to Algiers. All three have been cut and African ends used to complete other Mediterranean links with Gibraltar and Malta.

(c) One single core cable to Stora (Philippeville).

(d) Three single core cables to Bizerte.

(3) (a) Two single core cables run from Anse Malmousque on the northern side of Pointe Endoume to Ile de Ratonneau where they are landed at Calanque de Ratonneau.

(b) Two single core cables also run from Anse des Auffes just NE of Anse Malmousque to the same spot on Ile de Ratonneau.

(c) One single core cable runs from Pointe Endoume to Carry, a village about 4 ½ miles E. of Cap Couronne.

(4) The following telephone cables probably exist also:
(a) Two cables from Pointe Encloume, one to Ile Chateau D'If and thence to Ile de Ratonneau the other to Ile de Pomegues where it lands SW of Pointe Courille.

(b) One cable from Anse des Catalans to Ile de Pomegues where it lands on the South shore of Port du Frioul.

NOTE ON THE MARSEILLE CABLES:

U. G. cables connect the cable hut, Roucasblanc, with the Central Telegraph Office, Colbert, where there are the following installations:

11 Baudot Multiplex
6 Baudot duplex voice frequency

Accumulator batteries type Hydra WMI are in a room adjoining that in which the Baudot installations are kept. There are 24 of these batteries: 12 50v. and 12 40v. The capacity of each accumulator battery is 30 AH over a discharge period of 1000 hours.

4. UNDERGROUND CABLES

(a) Local cables (subscribers lines) containing 1, 7, 14, 28, 56, 112, 224, 448, and 900 pairs are in use. Star quads are sometimes used in these networks

(b) Distribution cables over 3 km. long may be loaded. In cables 3 to 8 kms. the loading is continuous. When they are over 8 km. loading coils are used. Distribution cables carrying earth return telegraph circuits are always separate from those carrying the telephone circuits.

(c) Long Distance Cables.

(1) These cables are normally quad cables, coil loaded. They are in general, bound with tape armoring covered with 2 layers of impregnated jute and sprayed with tar. Where cable is pulled through conduit, wire armoring is used without the jute.

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(2) Cables are always laid at the side of roads, buried to a depth of about 80 cm. and loading points and joints indicated by marking stones placed over them. Known cables are listed below:

ANGOULEME - LIMOGES — 61 quads
Repeater stations at Angouleme and Limoges.

BORDEAUX - TOULOUSE — 71 quads
Repeater stations at Toulouse and Agen.
There is a derivation from this cable to Montauband. (Where there is a repeater station). This derivation consists of 19 quads.

TOULOUSE - DAX
Section Toulouse - Cazeres — 72 quads
Section Cazeres - Pau — 26 quads
Repeater stations at Toulouse, Cazeres, and Montrejeau.
There is a derivation from Montrejeau to Bagneres de Luchon, details as follows:

Section Montrejeau to Loures	28 quads
Section Loures to Cierp	14 quads
Section Cierp to Cazeaux	19 quads
Section Cazeaux to Bagneres de Luchon	28 quads
Branch cable from Cierp to Marignac (St Beat)	7 quads

PARIS - LYONS No. 1 — 111 quads
Repeater station at Lyons

PARIS - LYONS No. 2 — 153 quads
Repeater stations at Lyons, St. Sympherien and La Pallisse

LYONS - MARSEILLE No. 1 — 91 quads
Repeater stations at Lyons, Valence, Le Pontet and Marseille.
A cable of 71 quads links Le Pontet with Avignon.
There are other derivations to the following places enroute: Vienne, St Vallier, Tain L'Ermitage, Loriol, Montelimar, Pierrelate, Orange, Noves, Orgon and Salon de Provence. These are probably 7 quad cable not loaded.

LYONS - MARSEILLE No. 2
Section Lyons - Le Pontet — 89 quads
Section Le Pontet - Aix-en-Provence — 73 quads
Section Aix-en-Provence - Marseille — 89 quads
Repeater stations at Lyon, Roussillon, Valence, Donzeres, Le Pontet, Lambese and Marseille.
There are derivations from the above cable to Vienne, S. Vallier, Tain, Lorcol, Montelimar, Orange, Cavaillon, and Luynes. These are probably 7 quad cables not loaded.

LE PONTET - PERPIGNON
Section Le Pontet - Montpellier — 89 quads
Section Montpellier - Narbonne — 89 quads
Section Narbonne - Perpignan — 72 quads
Repeater stations at Le Pontet, Montpellier, Narbonne, and Perpignan.
There are the following derivations from this cable:

Nimes	40 quads
Lunel	12 quads
Sete	30 quads
Beziers	48 quads
Nissan	3 quads
Coursan	2 quads

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TOULOUSE - NARBONNE
Section Toulouse - Carcassonne 73 quads
Section Carcassonne - Narbonne 73 quads
Repeater stations at Toulouse, Carcassonne and Narbonne.
There are the following derivations from the cables

Gardouch	3 quads
Castelnaudary	12 quads
Marseillette	2 quads
Castelnau	4 quads
Argens	4 quads

LYONS - ST ETIENNE No. 1 19 quads

Derivation to:

Givors	12 quads
St Chamons	7 quads

LYONS - ST ETIENNE No. 2 41 quads

MARSEILLE - VENTIMIGLIA
Section Marseille - Cannes 75 quads
Section Cannes - Nice 91 quads
Section NICE - MONACO 75 quads
Section MONACO - VENTIMIGLIA 48 quads

Repeater stations at Marseille, Toulon, Vidaubon and Cannes.
Derivations to:

Frejus	27 quads
St Raphael	12 quads
Antibes	27 quads
Cognes	12 quads
Cap d'Ail	12 quads
Beausoleil	12 quads
Roquebrune	12 quads

LYON - CHAMBERY - MODANE
Section Lyon - Les Abrets 128 quads
Section Les Abrets - Chambery 128 quads
Section Chambery - Modane 48 quads
Repeater stations at Lyon, Les Abrets, Aiguebelle and Modane.
This cable continues on to Turin, Derivation from Les Abretes-Grenoble - 48 quads

CHAMBERY - GENEVE
Section Chambery - Annecy 91 quads
Section Annecy - Annemasso 91 quads
Section Annemasse - Geneve 48 quads
Repeater station at Annecy
Derivations at Aix-les-Bains and La Roche sur Foron - 7 quads each not loaded.

LA ROCHE sur FORON - CHAMONIX
Section La Roche sur Foron Bonneville 48 quads
Section Bonneville - Sallanches 37 quads
Section Sallanches - Chamonix 19 quads
Repeater station at Cluses
Derivation from Sallanches to Megeve 19 quads

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LA PALISSE - CLERMONT FERRAND

Section La Pallisse - Vichy	89 quads
Section Vichy - Riom	73 quads
Section Riom - Clermont Ferrand	89 quads

Repeater stations at La Palisse and Clermont Ferrand

CLERMONT - FERRAND - LIMOGES

Section Clermont Ferrand - Laqueville	56 quads
Section Laqueville - Ussel	43 quads
Section Ussel - Limoges	43 quads

Repeater stations at Clermont Ferrand, Ussel and Limoges.

Derivations:

Mont Dora	19 quads
La Bourboule	7 quads

Complete technical data on all cables is available in Section C. Part I, M. I. 8/A/44/19.

5. REPEATER STATIONS

(a) Repeater stations are situated 60 to 120 km apart along the cable routes. The repeater stations in Cap and Toulon are in the General Post Office and old general post office respectively and those in Lyons and Limoges in the telephone exchanges. All other repeater stations in the area are in separate buildings which are all of an easily recognizable type. They are rectangular, measuring about 24 x 13 m. and consist of a ground floor and first floor.

(b) In general, the Repeater equipment is of French manufacture. The technical data of all French repeater equipment is available in M. I. 8/A/44/19.

(c) Power

(1) Power is taken from the mains and is 115/200 volts, 3 phase 50 cycles. It is usually on high tension supply with a transformer near the repeater station. The converter is in the engine room of the station and provides the necessary direct current - generally 220 and 24 volts, sometimes 230 or 130 and 12 volts.

(2) There are accumulators so that the machines can stop either partially or altogether at night. The accumulators will keep the stations going for about 12 hours, if the mains fail. After that the emergency power plant which supplies a current similar to that of the mains supply would have to be used.

(d) The following is a list of the known repeater stations:

NAME OF STATION	ADDRESS
AGEN (Lot et Garronne)	65 Blvd Scaliger
AIGUEBELLE (Savoie)	In the Grande Rue
ANNECY (Haute Savoie)	7 Avenue de Geneve
CANNES (Alpes Maritimes)	27 Boulevard de la Source
CARCASSONNE (Aude)	Route de Toulouse
CAZERES (Haute Garonne)	Route de Polaminy
CLERMONT - FERRAND (Puy de Dome)	2 rue Cuvier (corner of Place des Bughes)
CLUSES (Haute Savoie)	Rue de Pont Neuf
DONZERE (Drome)	Route Nationale No. 541
GAP (Hautes Alpes)	Hotel des P.T.T. (1st floor rue Carnot)
LAMBESC (Bouches du Rhone)	Route Nationale, quartier St Roch

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NAME OF STATION	ADDRESS
LA PALISSE (Allier)	Route Nationale (en direction Vichy)
LA SOUTERRAINE (CREUSE)	Place called "L'Affut"
LE PONTET (Vaucluse)	Route Nationale, near the Marseilles-Lyon railway level crossing.
LES ABRETS (Isere)	Route de Lyon
LIMOGES (Haute Vienne)	Telephone exchange, 1st floor in rue Edouard Vaillant
LYONS (Rhone)	Telephone exchange, ground floor, 19 rue Franklin
MARSEILLE (Bouches de Rhone)	12 Boulevard de la Paix
MODANE (Savoie)	5 Rue Jules Ferry
MONTPELLIER (Herault)	46 Rue de Toulouse
MONTREJEAU (Haute Garonne)	Route de Toulouse
NARBONNE (Aude)	Avenue Anatole France
PERIGNAN (Pyrennes Orientales)	2 Rue Henri Bataille
TASSIN (Rhone)	118 Rue Victor Hugo
TOULON (Var)	Rue Hippolyte Duprat and corner of Rue Pastourear (old hotel des PTT, 1st floor)
TOULOUSE (Haute Garonne)	8 Boulevard Riquet
USSEL (Correze)	Avenue Carnot
VALENCE (Drome)	103 Avenue Maurice Faure
VIDAUBAN (Var)	Route Nationale

6. Aerial Cable

There are no known aerial cables.

7. Overhead Wire

(a) Wire lines in general follow standard French construction practices. Detailed and technical information regarding construction is shown in SOP and in MI 8/4/44/19.

(b) Overhead lines follow the railroads where practical, otherwise along main roads. PTT lines are built on one side of railway tracks while railway control and dispatch circuits are built on the other side.

(c) Local distribution circuits in urban areas are often overhead wire, with supporting structures attached to buildings. These circuits are not transposed and a pair is formed from two horizontal wires rather than the diagonal wires of a group as is the case in trunk lines.

(d) Overhead telegraph wires are on the same poles as telephone lines. Telegraph wires are placed on the outside pin positions, that is, on the side away from the rails or the road.

8. Railroad Lines

a. Railroad circuits are always located on the opposite side of the tracks from the PTT routes.

b. Telephone communications on the railways, which are mostly electrified is good. Generating, distribution and sub-stations have ordinary telephone communication between each other. It is understood that there is a high frequency telephony system in use between generating and distribution stations.

c. Ordinary Morse telegraph instruments are in use but in recent years teleprinters have been replacing the older Morse instruments.

9. Carrier Equipment

Carrier telephony is used for areas with heavy traffic. The following details are the only ones available:

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Marseille - Nice

4 circuits between Marseilles and Nice were equipped with carrier telephony.

Circuits 1 and 2

Route: Via Toulon, les Arcs, St Raphael.
Wires: 3mm.
Armament: 30-40 cm.
U. G. Section: At Marseilles, 5.1 km in conductors of 1.5 mm. at Nice, 2km in conductors of 2.5 mm.
Equipment Installed: At Marseilles the equipment was installed in repeater station in the Blvd de la Prix. From there the circuits were prolonged in O. H. lines to the St Charles junction box, leaving only 600 m. of U. G. cable between carrier installations and junction box.
Number of channels: 4 on each circuit.
Nature of Equipment: Simplified system (called D) for using no terminal repeaters.
Carrier frequency: 10, 300 cps in each direction.
Power supply: accumulator batteries - at Marseilles the repeater station batteries were used.

Circuits 3 and 4

Route: Via Gardonne, Carnoules, les Arcs, Draguignan, Grasse.
Wires: 3 or 2 mm.
Armament: 20, 25, 30, or 40 cm.
U. G. Section: At Marseilles, 3.85 km, in conductors of 1.5 mm. At Nice as for Circuits 1 and 2.

Note: It is probable that these circuits are now carried in the cable Marseilles - Menton. As this is not known certainly, the foregoing details have been given.

AVIGNON-NARBONNE

A three channel system on 208 Km of 3 mm copper wire. In the direction A-B the 3 bands of transmitted frequency are between 5100 and 13900 cps. In the direction B-A there are between 16200 and 26000 cps.

Note: It is probable that this circuit also is now in the cable

Other Known Carrier Circuits

Aurillac - Clermont - Ferrand	1 (possibly 3) channels OH route
Aurillac - Limoges	2 channel (1 via Ussel, 1 via Souillac) OH route
Aurillac - Murat	1 channel OH route
Aurillac - Riom	2 channel OH route
Aurillac - Toulouse	1 channel OH route
Briancon - Grenoble	1 channel OH route
Clermont Ferrand - Gueret	1 channel OH route
Clermont Ferrand - Lyons	1 channel OH route
Clermont Ferrand - Montlucon	6 channel OH route
Clermont Ferrand - Rodez	1 channel OH route
Clermont Ferrand - St Gervais	1 channel OH route
Clermont Ferrand - Thiers	2 channels OH route
Clermont Ferrand - Vichy	6 channel OH route via Thiers
Clermont Ferrand - Vichy	1 channel OH route via Riom
Digne - Marseilles	1 channel
Gap - Grenoble	3 channel

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Other Known Carrier Circuits

Montpellier - Rodez	2 channels
Rodez - Toulouse	2 channels
St. Flour - Brioude	1 channel OH route
St. Flour - Murat	1 channel OH route
St. Flour - St Chely	1 channel OH route
Toulouse - Mazamet	1 channel OH route
Vichy - Riom	2 channels OH route

10. Power Supply

a. Power supply in FRANCE is quite varied and voltages are not standardized. Two of these are generally available in every town: a lower one for lighting, and a higher one for power. Most of the power is generated as three-phase 50-cycle alternating current however, southeastern FRANCE still uses 25 cycle AC. In some towns direct current is used. See Appendix D for detailed description of power supply.

b. Telephone carrier circuits have been developed on high voltages power transmission lines, Carriers are between 50 and 150 KC; the output is between 5 and 15 watts. The Givers-Monistrol-Eguzon line and extensions north and northwest are 220 KV; the lines along the Bay of Biscay and in the South and southwest, between 50 and 150 KV. The most important manufacturer of high voltage line equipment has been Thomson-Houston (since renamed Campagnie Generale de Constructions Telephoniques).

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INCLOSURE NO. 4 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

LOCAL POWER SUPPLY IN SOUTHERN FRANCE

1. Hydro-electric resources:

a. About 90% of the hydro-electric plants in FRANCE is located south of a line extending roughly from La Rochelle to Geneva. These plants are linked to the thermal plants in the north by a high tension grid system of 150 and 220 kv.

b. The hydro-electric plants in the south are concentrated in three areas:

(1) Alps: The Alps system is glacier fed and experiences a marked shortage of water in the winter. Minimum capacity during the "dry" season is less than 50% of maximum capacity. Its minimum load is carried in February, its maximum load during May through July.

(2) The Massif central: Experiences its low water period during the summer; the capacity in August is only about 20% of capacity in March.

(3) The Pyrenees: Share the characteristics both of the Alps and the Massif central. Peak capacity is obtained in June, with minor peaks in October and December; the lowest period occurs in January and February when capacity is about 40% of the peak, followed by another low period in August and September. Large reservoirs store water for use by hydro stations during the dry periods, but due to the limited amount of storage capacity, the plants in most areas are run on light load during the dry period. Heavy consuming centers are therefore linked to more than one generating area, e.g., Lyn-St Etienne receives power from both the Alps and the Massif central. In general however, the dry season of one is compensated by the wet season of another.

2. a. In 1941 total French electric power output amounted to 18,000 million kwh, of which 11,500 million kwh was hydro-generated. The poorest district as far as power is concerned is the Mediterranean area between Marseille and Nice (25 cycle current rather than the prevailing 50 cycle current) where the number of generating stations is small and the district is isolated from the rest of the French network.

b. All the important hydro stations except Kembs on the Rhine (installed capacity 115,000 kw) and Eguzon on the Creuse (installed capacity 64,000 kw) are located in southern FRANCE. In addition there are many hydro plants of under 5,000 kw capacity which form an additional source of supply for local needs.

3. Sub-stations:

a. These are especially important in a country like FRANCE, where power is often consumed far from the point of origin; their importance has been accentuated since the collapse of FRANCE because of the lack of imported coal and the steady fall in French coal production has meant increasing dependence on hydro supplies.

4. Peculiarities of the southern FRANCE network:

a. The west coast is supplied by the 150 kv line running up the western seaboard, carrying Pyrenees power transmitted through Jurancon and Lannemezan.

b. The 25 cycle line Lingostiere-Bancairon-Ste Tulle-Gavotte, serving the south east corner of FRANCE, appears to be no longer isolated from the rest of the French grid, but can receive power from the Massif central.

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c. Conversion from 50 cycles to 25 cycles probably takes place either at the transformer station of Septemes, just north of Cape Pinede generating plant, or at the substation adjoining the old Arenc steam plant. Septemes is equipped with 150/35 kv transformers. It is fed by a 150 kv line from the Massif central (Monistrol) and one of the same voltage from the Pyrenees (St. Victor) which meet at Venejan (Bagnolsur-Ceze). From here a line at 150 kv runs southeast to Septemes. An underground cable 10 km long between Septemes and Arenc completes the connection to the 25 cycle line, Lingostiere-Bancairon-Tulle-Gavotte.

d. The Germans have been experimenting with 580 kv and it is possible that some lines may have this voltage.

5. Local electricity:

a. Southern FRANCE is almost completely electrified. Almost all French electricity is generated as three-phase, 50-cycle, alternating current, which is practically universal for house to house supplies. Southeastern FRANCE, which is roughly the area served by the line Gavotte-Sainte-Tulle-Bancairon-Lingostiere, still uses 25-cycle AC. In some towns, direct current obtained from alternating current by use of mercury-arc rectifiers, is used; other localities use both AC and DC. Voltages are not standardized, two of these are generally available in every town, a lower one for lighting and a higher one for power. Industrial enterprises purchasing bulk power ordinarily use high voltages such as 5,000 and above. Transforming or rectifying, if either is necessary, is carried on within the factory area with factory owned equipment.

b. In spite of new construction, all FRANCE is suffering from a power shortage, due to drought conditions. The Ministry of production has issued stringent new measures for conservation of power.

6. Important substations:

BAY OF BISCAY

Name:	Type:
Pessac	Open air transforming and switching.
Dax	Same.

SPANISH BORDER

Jurancon	Switching.
Lanemezan	Open air transformer.

REST OF SOUTHERN FRANCE

Rueyyes	Switching.
St Victor	Transformer.
Mareges (la Mole)	Same.
Fleac	Same.
Eguzon	Open air transformer.
Bagnols-sur-Ceze	Transformer.
Venejan	
Portet-St Simon	Transformer.
Monistrol D'Allier	Transformer.
Venissieux	Transformer.
La Riviere	Transformer.

7. Power stations, southern FRANCE:

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BAY OF BISCAY

Name:	Type:	Capacity kw
Bacalon	Thermal	19,200
Floirac	"	52,000
Hostens	"	25,000

SPANISH BORDER

Name:	Type:	Capacity kw:
Auzat	Hydro	19,000
Lacourt	"	5,400
Mercus	"	5,700
Orlu	"	12,850
Sabart	"	25,200
Artouste	"	19,200
Baralet	"	8,400
Centrale Thermique de L'Adour	"	20,000
Hourat	"	32,000
Licq Atherey	"	8,250
Miegebat	"	32,000
Eygun-Lescun	"	21,200
Camon	"	16,800
Eylie	"	27,000
La Gentille	"	5,000
Luchon (Lac Do)	"	26,800
Pique-Inferieure	"	6,400
Pique-Superieure	"	8,800
Pointis de Riviere	"	7,100
Saint Sernin	"	5,000
Valentine	"	9,600
Beyrede	"	9,000
Borderes	"	6,400
Eget	"	24,500
Esterre	"	14,400
Lasscula	"	10,800
Lau-Balagnas	"	16,000
Loudenvielle	"	9,000
Luz	"	26,400
Saint-Lary	"	15,200
Soulom	"	14,500
Tramezaygues	"	15,600

MEDITERRANEAN COAST POWER STATIONS

Le Banacairon	Hydro	44,000
Breil	"	8,800
Fontan	"	7,000
Lingostiere	Thermal	60,000
Saint-Cezaire	Hydro	8,400
Escculoubre	"	9,500
Gesse	"	5,600
Pont-Neuf	Thermal	6,200
Arenc	"	6,200
Cap Pinede	"	91,500
La Grand' Combe	"	35,000
Molieres	"	10,000
Rochebelle	"	15,000
Le Bousquet D'Orb	"	12,000

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MEDITERRANEAN COAST POWER STATIONS

Name:	Type:	Capacity kw:
Missiessy	Thermal	8,000
La Loubiere	"	10,000

POWER STATIONS FOR THE REST OF S. FRANCE

Chancy-Pougny	Hydro	28,000
Cize-Bolozon	"	20,400
Coupy	"	10,000
Eloise	"	8,200
Le Teil	Thermal	6,400
La Farge	"	5,200
Brommat	Hydro	165,000
Lacaze	Thermal	9,000
La Jourdanie	Hydro	7,800
Pinet	"	40,000
Sarrana	"	102,000
Truel	"	5,000
Viviez	Thermal	5,500
La Brillanne	Hydro	10,800
La Largue	"	7,200
Le Poet	"	21,800
Sainte Tulle	Thermal	96,000
Sainte Tulle	Hydro	40,000
Ventavon	"	30,000
Coindre	"	24,000
La Mativie	"	29,000
L'Hopital (Ydes)	Thermal	8,000
Mareges	Hydro	132,000
Bar	"	5,000
Lavel de Cere	"	29,000
Saillant	"	7,500
Val Beneyte	"	29,000
Eguzon	"	64,000
La Roche-au-Moine	"	9,000
Chatelus-le-Marcheix	"	8,000
La Chatre	"	6,600
Saint-Marc	"	11,400
Mauzac	"	8,000
Luiliere	"	12,600
Tuiliere	Thermal	22,400
Bas-Bouvantes	Hydro	12,000
Beaumont-Monteux	"	36,000
Bournillon	"	12,200
Pizancon	"	40,000
Champcella	"	6,400
L'Argentire	"	26,400
Les Claux	"	9,200
Pont Haut	"	5,250
St Maurice	"	8,000
Monstrol d'Allier	"	17,000
Moulas	"	14,400
Bioge	"	9,100
Chavaroche	"	7,500
Chedde	"	11,200
Le Fayet	"	10,400
Le Giffre	"	7,200
Motz-val-de-fier	"	16,000
Vallieres	"	14,400

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Name:	Type:	Capacity kw:
Limoges	Thermal	17,600
Avignonet	Hydro	5,000
Bonne Inferieure	"	5,000
Bout-du-Monde	"	5,500
Champ-eur-Drac	"	6,400
Drac-Romanche	"	11,200
Gavet	"	5,400
LacMort	"	7,600
LeRivier	"	9,000
Les Roberts	"	10,400
Le Verney	"	12,500
Le Villaret	Thermal	6,800
Livet	Hydro	12,600
Pierre Ebesse	"	7,900
Riouperoux	"	33,500
Rondeau	"	8,000
Saint-Guillerme	"	14,400
Sautet	"	67,500
Mably (L'Arsenal)	Thermal	16,200
Montaud	"	18,400
Montrambert	"	11,600
St Etienne	"	25,000
St Louis	"	11,200
St Thomas	"	34,000
La Vergne	Hydro	8,000
St Chely D'Apcher	"	12,000
Coudes	Thermal	22,500
La Combelle	"	5,000
Les Fades	Hydro	8,400
Queuille	"	5,800
Cusset-Jonage	"	23,200
Cusset-Villeurbanne	Thermal	56,000
La Mouche	"	82,000
Lyon (Municipal)	"	5,300
Quillins	"	24,000
Avrieux	Hydro	11,200
Beaufort	"	20,000
Belleville	"	16,000
Bissorte	"	78,000
Bozel	"	6,400
Calypso	"	12,600
Hauteluce	"	8,000
La Perriere	"	16,800
La Praz	"	12,200
Le Chatelard St Martin	"	9,000
Le Rageat	"	10,000
La Saussaz	"	14,000
Montricher	"	11,000
Moutiers	"	5,300
Pontanofrey	"	9,800
Premont	"	12,400
Queige	"	6,100
St Beron	"	6,400
St Jean-de-Maurienne	"	13,000
Sainte Marie de Cuines	"	7,300
Ugine	"	6,000
Venthon	"	5,600
Viclaire	"	37,000
Villard	"	7,200
Villard du Planay	"	11,000
Luzieres	"	12,400

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Name:	Type:	Capacity kw:
Pelissier	Thermal	5,200
Pre-Grand	"	20,000
Thuries	Hydro	5,000
Vintrou	"	45,000
Arrens	"	Unknown
Artigues	"	18,000
Champ-sur-Drac	"	Unknown
Chavanon	"	45,000
Cordeac	"	Unknown
Genissiat	"	416,000
L'Aigle	"	200,000
LaChaudanne	"	26,800
Portillon	"	40,000
Pradieres	"	Unknown
St Etienne Cantalis	"	55,000
St Etienne de Tinee	"	Unknown
St Pierre-sur-Drac	"	Unknown
Sept Laux	"	Unknown

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INCLOSURE NO. 5 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

RADIO PLAN

1. General

a. Radio communications will be established in accordance with attached diagrams:

(1) Radio channels (ANVIL) Effective H-Hour D-Day.

(2) Radio channels (ANVIL) Effective D + 3.

2. Radio Communications Afloat

a. Radio silence will be maintained on all sets in all ships up to "H" hour. Silence may be broken in an emergency prior to "H" hour on orders of the Senior Naval Officer. All ships radio sets operating on army or joint shore party nets, except those listening on certain prearranged schedules will open a listening watch prior to H-2, but not before H-5, on orders of the Force, Corps or Division Signal Officer concerned.

b. Radio communication within assault sub-task forces will conform to amphibious doctrines developed at Invasion Training Centers in this theater. It is the responsibility of the Division Signal Officer to coordinate signal activities of all units within the Sub-Task Force and with the corresponding Naval Sub-Task Force communication officer.

c. Seventh Army communication aboard the U.S.S. CATOCTIN will be operated by a detachment of two officers and twenty men from the 1st Signal Battalion.

d. Seventh Army communication aboard the U.S.S. HENRICO will be operated by a detachment of two officers and forty-seven men from the 1st Signal Battalion.

e. VI Corps communications aboard the U.S.S. CATOCTIN will be operated by a detachment of one officer and twelve men from the 57th Signal Battalion, reinforced by the ship's permanent Army Signal Personnel.

f. Army Air Support Net A-19 will be operated by a detachment of three officers and twelve men from the 2nd Tactical Air Communications Squadron. This net opens when VI Corps moves ashore.

g. The 2677th Regiment, OSS (Prov) will provide three operators aboard the Alternate Army Headquarters Ship to monitor the Special Broadcast from OSS and SOE, Algiers.

h. Four French radio operators will be attached from II French Corps to the 1st Signal Battalion to assist in operation on net A-16.

3. Radio Communication Ashore.

a. Existing fixed radio installations will be seized and secured but not used or damaged by tactical army units. Location of such stations will be reported to the Signal Officer, Seventh Army. Initial allocation will be made to Naval, Air or PWB use by the Commanding General, Seventh Army. Final disposition of such facilities of all major installations rests with SAC/MTO.

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c. One (1) Radio Set, SCR-299, and team of 982nd Signal Service Co, will be attached to 163rd Signal Photo Co, prior to the launching of Operation "ANVIL" for the purpose of transmitting Signal Corps radiophotos to AFHQ.

d. The radio company of the 1st Signal Battalion reinforced by a detachment of the 982nd Signal Company (Radio) will provide initial radio communication ashore for Headquarters Seventh Army.

e. Times of use of frequencies (SOI Item No. 26-3) will be adhered to until contact is made. Thereafter times of frequency change will be at direction of the control stations.

f. Radio stations will be set up in the following order of priority at Army CP ashore:

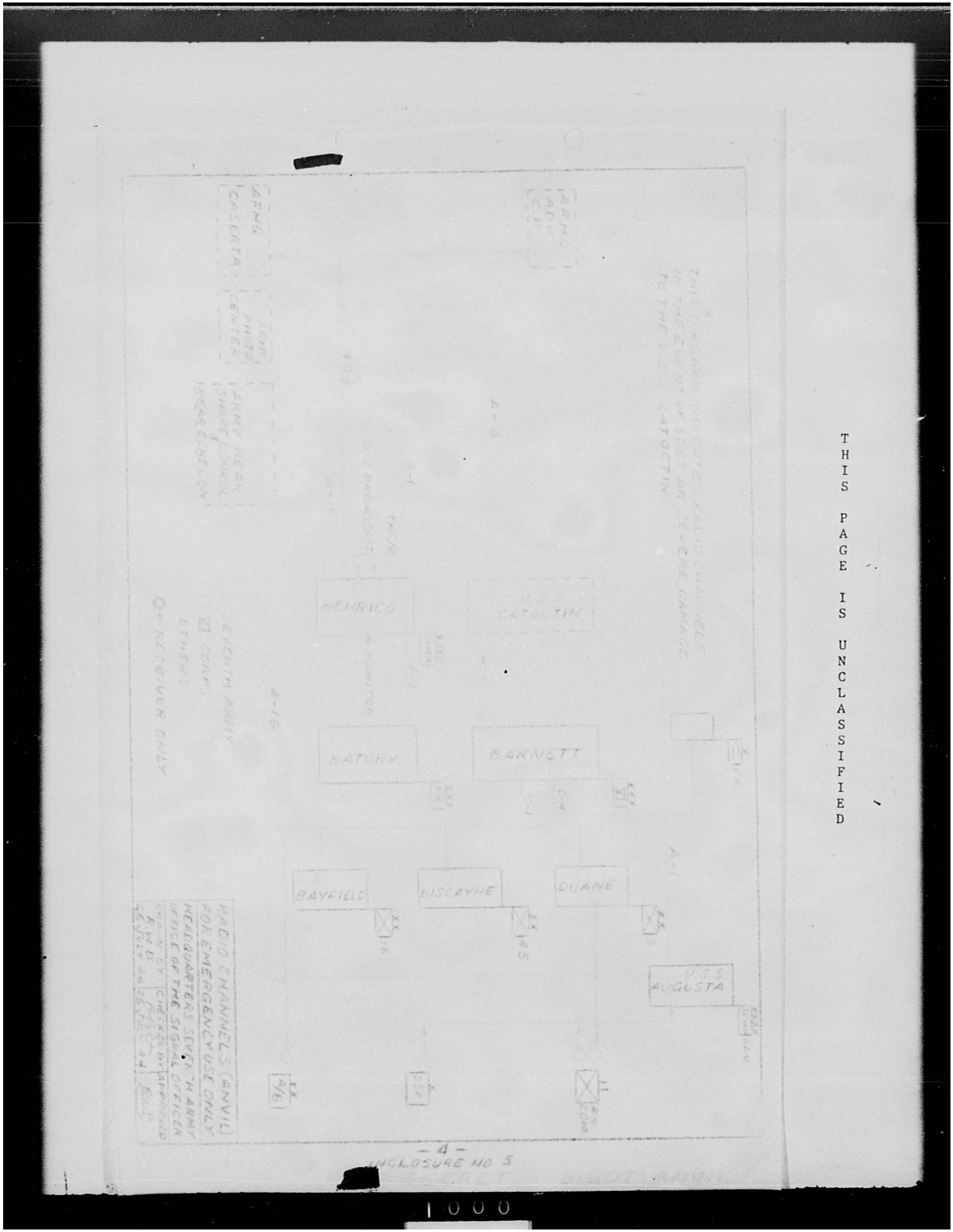
1. Serial A-13
2. Serial A-1
3. Serial 408
4. Serial A-2
5. Serial A-16
6. Serial A-15
7. Serial 411
8. Serial A-6
9. Serial Shaef 6
10. Serial 418
11. Serial Shaef 51
12. Serial Shaef 7
13. Serial A-3

g. Press circuits 412, 413 and 51 will be established as directed by Public Relations Officer, Seventh Army.

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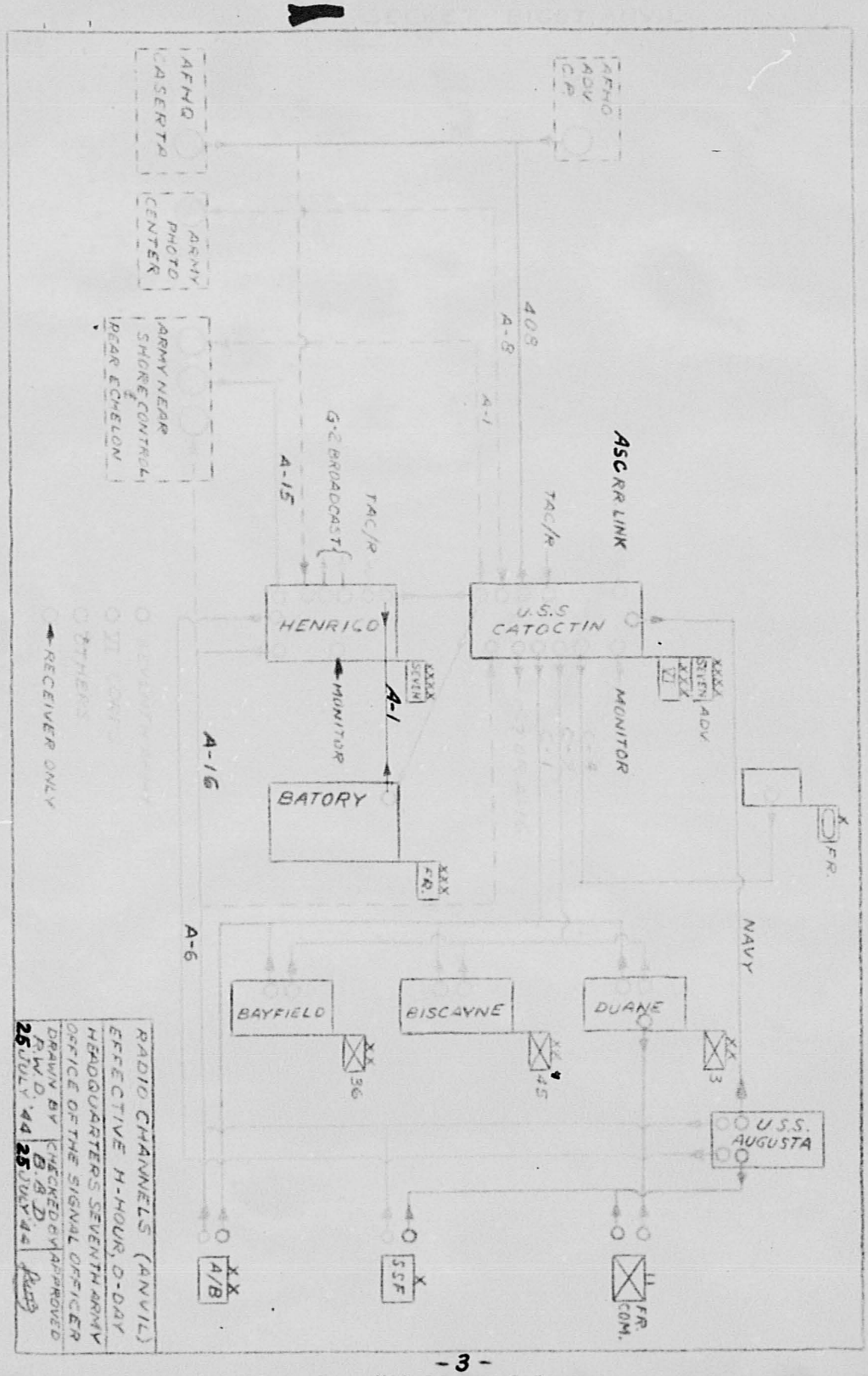


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RADIO CHANNELS (ANVIL)
EFFECTIVE H-HOUR, D-DAY
HEADQUARTERS SEVENTH ARMY
OFFICE OF THE SIGNAL OFFICER

DRAWN BY	CHECKED BY	APPROVED
P.W.D.	B.B.D.	
25 JULY '44	25 JULY 44	

-3-
INCLOSURE NO. 5

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INCLOSURE NO. 5 TO ANVIL

1002

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INCLOSURE NO. 6 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

WIRE PLAN

1. Communications in Italy and Near Shore Control Points will be provided by AFHQ.

2. Tactical Communications

a. Corps and Division commanders are responsible for all tactical wire communications in their own areas. This includes responsibility for all wire communications required for Shore Landing Parties and Shore Beach Parties. They are also responsible for the proper use and conservation of existing wire facilities until such responsibility is taken over by Seventh Army.

b. Seventh Army will establish communication to Corps as soon as possible after getting ashore. Initial communications will be over field wire which will be replaced later with a better type of construction as soon as the material becomes available. Initially two talking circuits and one telegraph circuit will be provided.

c. Full use will be made of existing facilities in the area. Later, as these circuits are no longer needed for tactical use, they will be used in the fixed wire systems.

3. Fixed Wire Communications.

a. Fixed wire communications will be established in accordance with AFHQ wire plan. See diagram attached.

b. The greatest possible use will be made of existing poles and wire in establishing the fixed communication system in order to conserve line materials.

c. Material for use in establishing fixed wire communication will be under control of the Signal Officer, Seventh Army, and except in emergency will not be used for tactical purposes.

4. Interruption of the Commercial Wire Systems.

a. Advance units will be instructed to cut wire lines leading into enemy territory. This includes telephone, telegraph, and railroad dispatch lines. The near end of the enemy portion of such lines will be short-circuited and grounded.

b. Central offices will be secured intact if possible. All troops will be instructed to remove all personnel from the central offices and establish a guard over such installations. Service will be interrupted by cutting off the power supply. Care must be taken not to damage central office equipment. Particular care should be taken to secure all records since this will greatly facilitate the re-establishment of communication. Signal officers of the various units will make plans for taking over central offices as soon as possible after they are captured.

c. Every precaution will be taken to prevent loss to Signal Corps personnel from mines and booby traps while working on any type of enemy communication facilities.

5. Wire Supply

a. Normal supply channels will be used throughout the operation.

b. Units will be issued wire supplies on the basis of T/BA allotments insofar as these supplies are available.

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c. Certain supplies are being received for the special projects involved in the fixed wire communication plan. These supplies will be under control of the Signal Officer, Seventh Army, and will be issued only for the use intended. This equipment consists of the following items:

(1) Permanent line construction materials.

(2) Rapid pole line material.

(3) Carrier telephone equipment.

(4) Repeaters.

(5) Switchboards.

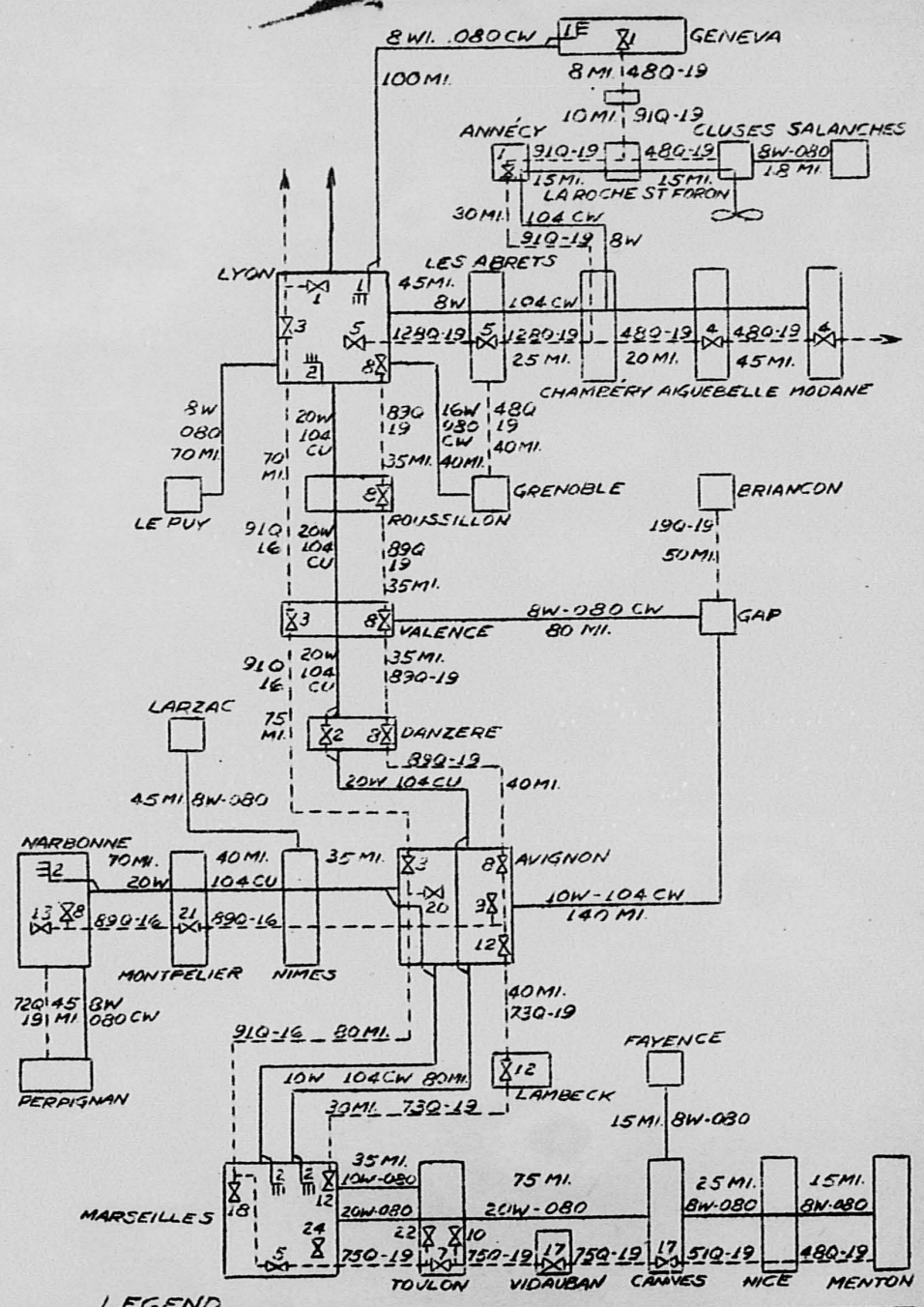
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T SECRET

BIGOT-ANVIL



LEGEND

080 CW, 104 CW, 104 CU SIZES OF WIRE
PKG "C" CARRIER TERMINALS WITH QUANTITY
CARRIER BYPASS REPEATER
---- QUADDED TOLL CABLE

H.Q. SEVENTH ARMY
OFFICE OF THE SIGNAL OFFICER
FIXED WIRE PLAN
3-29-44

DRAWN BY	CHECKED BY	APPROVED BY
R.W.D	L.H.E.	W.M.B

SECRET

BIGOT-ANVIL

-3-

INCLOSURE NO. 6

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INCLOSURE NO. 7 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

CRYPTOGRAPHIC PLAN

1. During the assault all U. S. cryptographic agencies will employ joint or combined systems. Use of joint or combined systems as noted below will be continued until Army headquarters directs the use of normal Army systems at such time as the Army is firmly established ashore.

a. Combined Cipher Machine, using CCBP ∅131, will be used for enciphering all traffic between U. S. Divisions, between U. S. Divisions and U. S. Corps or French Corps, between U. S. Corps and French Corps, between U. S. or French Corps and Army, and from Army to higher headquarters. Traffic for all U. S. lower units will be cryptographed in the Combined Assault Code, CCBP ∅13∅, edition B-2, or the Joint Hag Key List, SIGSOT. The Combined Assault Code CCBP ∅13∅, edition B-2, will go out of effect at ∅∅∅1B, D plus 5.

b. Traffic between French Corps and U. S. Army will be through U. S. Liaison Teams, using Combined Cipher Machine and CCBP ∅131. All traffic between French units will be cryptographed in normal French systems.

2. All traffic in which the Navy is an addressee will be enciphered in system CCBP ∅131 even after normal systems have been prescribed for the Army ashore.

a. All Army and Navy units in the assault echelon will hold CCBP ∅122, edition B-6, the Combined Authentication System which will be used until the Army is established ashore. The first method of challenge and reply as prescribed on page III will be used.

3. Distribution of cryptographic systems is shown in the SOI.

4. SIGABA's will be taken ashore when headquarters of Division, Corps, and Army leave ship.

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INCLOSURE NO. 8 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

MESSAGE CENTER AND MESSENGER PLAN

1. Message Centers

a. Message centers will operate continuously on each Headquarters ship from time of embarkation until all units controlled by each ship have landed.

b. Message centers will operate continuously at the Shore Party CP's until ordered closed.

2. Air Messenger Service

a. Air messenger service (AMS) will be operated whenever practicable by Headquarters, Seventh Army between principal headquarters under this command.

b. L-5 planes will be provided, operated, and maintained by the 72nd Liaison Squadron (less detachment) under the direction of the Army Signal Officer.

c. Scheduled AMS will operate to each Army, Corps, and Division Headquarters, as well as to Seventh Army Rear Echelon and Base Section. This service will start operating about D + 5 or as soon as conditions permit the movement of L-5 messenger planes in the target area. The schedule will develop as required as shown on attached chart.

d. Special AMS will be provided by three (3) planes based at CP Seventh Army.

e. Squadron aircraft will be assigned for use as follows:

Scheduled AMS	22 planes
Special AMS	3 planes
Squadron Control	2 planes
Maintenance	5 planes
TOTAL	32 planes

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Note:
1. The numerator represents the number of daily flights, the denominator the number of planes on this route.
2. Time schedules to be announced later in SOI.

AIR MESSENGER SCHEDULE
HEADQUARTERS SEVENTH ARMY
OFFICE OF THE SIGNAL OFFICER

DRAWN BY:	CHECKED BY:	APPROVED BY:
R.W.D.	C.W.B.	
21 JULY 1944	21 JULY 1944	

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HEADQUARTERS SEVENTH ARMY
APO 758

Ref No X-1400

4 August 1944

SUBJECT: Amendment to Annex No. 9 to Field Order No. 1, "ANVIL".

TO : See Distribution.

1. The following Amendments are made to Annex No. 9, Ref. No. X-1300, to Field Order No. 1, "ANVIL", Ref. No. X-1317, dated 26 July 1944.

a. Change Section III, paragraph 4 a (3) to read, "Land and pass the 1st French Infantry Division (DIH) over Beach 259 on or about D + 1".

b. Change Section III, paragraph 4 b (3) to read, "Land and pass the 2nd Combat Command, 1st Fr Armored Division over the North end of Beach 262, and the 3rd French Infantry Division (DIA) over the south end of Beach 262 on or about D + 1".

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:

JOHN S. GUTHRIE,
Colonel, GSC,
A. C. of S., G-3.

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B.C.G.	25
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VI Corps	27-32
Army "B"	33-38
French Mission	39,40
1st A/B Task Force	41
1st S.S.F.	42
French Grp Commandos	43
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Init: [redacted]
Date: 28 July 1944.
28 July 1944

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Ref. No. X-1300

HEADQUARTERS SEVENTH ARMY
APO # 758

28 July 1944

ANNEX NO. 9
TO F.O. NO. 1 ANVIL

BEACH MAINTENANCE PLAN

		Pages
SECTION I	GENERAL	1 - 3
SECTION II	ORGANIZATION, BEACH GENERAL GROUP	3
SECTION III	ORGANIZATION, TASKS & MISSIONS, BEACH GROUP	4 - 12
SECTION IV	REPORTS	13

* * * * *

By command of MAJOR GENERAL PATCH:

Arthur A. White
Brigadier General, G.S.C.
Chief of Staff.

OFFICIAL: John S. Guthrie
JOHN S. GUTHRIE
Colonel, GSC,
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HEADQUARTERS SEVENTH ARMY
APO 758

BEACH MAINTENANCE PLAN

SECTION I - GENERAL

1. DEFINITION.

a. A Beach Group is an organization specially constituted, trained and equipped for the technical organization of beaches to regulate and facilitate the landing and movement of personnel and equipment on and over the beach to assembly areas and vehicle parks; to unload cargo ships; to move and receive supplies into beach dumps; to select, organize and initially operate beach dumps; to establish and maintain communications; and to evacuate casualties and prisoners of war over the beach to ships and craft.

2. COMMAND.

a. Beach Groups will be attached to Corps. There will be three (3) Beach Groups in all, one for each assault division. Initially Beach Groups will be presumably under command of the Sub-Task Force Commander. Beach Groups will revert to Force control and command when Army assumes the supply function. The Force Commander will exercise control over the three Beach Groups through his G-4 and an agency known as the Beach Control Group.

3. BEACH CONTROL GROUP.

a. The Beach Control Group will be responsible for coordinating the equipping, training, planning and operations of the Beach Groups.

4. PLANNING.

a. Beach Groups will prepare operational plans in conformity with Army directives for Army approval in cooperation with Sub-Task Forces concerned.

5. BEACH MAINTENANCE AREA.

a. The shore establishment which includes the beach, the beach dumps and connecting road net is called the beach maintenance area. Each Beach Group will establish, as soon as possible, a consolidated beach maintenance area. This area will normally not extend more than three miles inland from the shoreline. It may include minor ports in the vicinity. The development and operation of such ports will be by the Beach Group in whose sector the ports are.

b. It is estimated that each Beach Group as constituted for this operation is capable of moving at least 3000 tons of supplies per day from ships into segregated dumps and supplying the technicians and labor necessary to operate these dumps.

c. As tonnage requirements increase, the capacity of the Beach Groups will be increased by improvement of beach facilities, the development of local small ports and the augmentation of the Groups by Port Company personnel and additional depot units. If necessary, additional service personnel will be made available from Army reserves.

d. When a major port is captured and unloading over the beaches ceases the Shore Regiments will remain under Army control but the unloading and dump operating personnel will pass to Base Section control and the Base Section will be responsible for operation or consolidation of such beach dumps as Army may not designate as Army forward dumps.

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e. Beach Groups will exploit suitable landing areas and establish new beach maintenance areas which may become available to the westward following the line of advance.

6. CONTROL OF CRAFT AND BEACH TRAFFIC.

a. Naval Beach Battalions attached to Beach Groups, landing with assault waves of division Sub-Task Forces, will provide Naval shore to ship signal communications and control of off-shore boat traffic. Movement of personnel and vehicles across the beach will be regulated by Beach Group military police and engineer guides in accordance with the requirements of the Senior Beach Group Commander ashore. Beach markers will be placed by Beach Group Engineer reconnaissance parties.

7. ENGINEER TASKS.

a. The combat engineers and gapping teams with the assault waves will be responsible for initial Engineer tasks required to assist combat vehicles of the assault waves across beaches and to open beach exits.

b. Beach Group Engineers, upon landing, will relieve the combat Engineers of Engineer tasks on the beaches, will develop and expand the beach roadway system for continued operation, clear the beach of mines, obstructions and obstacles, open additional beach exits, prepare dump areas for receipt of supplies, and be responsible for maintenance of beach exits and roads within the established beach maintenance area.

8. DUMP RESPONSIBILITY.

a. The operation of all beach dumps including inloading, receipt, issue and outloading will be the responsibility of the Beach Groups until such time as the Army relinquishes this function to the Base Section. Transportation of supplies from beach dumps to forward areas will not be a function of the Beach Groups.

b. First supplies ashore will be stored initially in beach dumps by Service and Class in the battalion beach group area. As soon as the tactical situation permits, supplies will be delivered to consolidated regimental maintenance area dumps. Beach Groups are responsible for dump consolidation and provision of M/T for this purpose.

c. Maintenance area dumps will be established by Service and Class; supplies will be segregated and stacked for ease of issue and inventory.

d. Reports showing receipts, issues and balances on hand in each dump will initially be submitted daily, covering the preceding 24-hour period, to G-4 of the division or Corps as required and later through Beach Control Group to Army G-4. These reports will be prepared and submitted as shown in Appendix "A".

e. Issue will be on demand except for controlled items of supply and equipment which will be in conformity with the Army policies and directives.

f. Labor for the operation of dumps in the beach maintenance area to include receipt, issue and security of dumps, and traffic control within the dump area will be provided by the Beach Groups until relieved by Army directive.

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SECTION II - ORGANIZATION

BEACH CONTROL GROUP

UNITS	PERSONNEL	VEHICLES
Headquarters 5-510-1 (Mod)	80	13
Headquarters Company 5-510-1 (Mod) plus attachments	80	35
Signal Operating Co. (Spec.)	186	33
759th MP. Bn (-4 Companies)	45	10
TOTAL	391	91

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SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP.

1. ORGANIZATION OF BEACH GROUP.

UNITS	GROUP A	GROUP B	GROUP C	TOTAL PERS.	TOTAL VEH.
Engr. Combat Regt.	1	1		1900	350
Engr. Shore Regt.			1	1465	272
Engr. Combat Bn.			1	683	138
Naval Beach Bn.	1	1	1	455	70
Med. Bn. Hq.	1	1	1	44	8
Med. Collecting Co.	3	3	3	105	20
Med. Clearing Co.	1	1	1	117	19
Med. Clearing Plat.	1	1	1	42	6
MP Company	1	1	1	104	15
Det., PW Esct. Gd. Co.	1	1	1	31	1
Platoons Boat Gds.	3	3	3	99	0
Signal Company (Spec.)	1	1	1	220	32
Det., Chem. Depot Co.	1	1	1	18	2
Platoon, Engr. Depot Co.	1	1	1	33	3
Ordnance Ammo. Co.	1	1	1	186	24
Section, QM Gas Supply Co.	1	1	1	27	12
Platoon, QM Rhd. Co.	1	1	1	75	3
Det., Signal Depot Co.	1	1	1	24	1
Det., Signal Rep. Co.	1	1	1	32	9
Air Force Beach Detail	1	1	1	23	4
RAF Beach Section	1	1	1	27	6
Det., Regulating Co.	1	1	1	75	6
Ord. Med. Auto Main. Co. (DUKW)	1	1	1	202	78
Hq. & Hq. Det., QM Bn. (Mob)	1	1	1	27	7
Amphibian Truck Co.	5	5	5	920	275
QM Truck Co.	2	2	2	230	108
Hq. & Hq. Det., QM Bn.	1	1	1	17	1
QM Service Co.	5	5	5	1095	20
Plat., Cml. Decon. Co.	1	1	1	34	9
Det., Ordnance Depot Co.	1	1	1	22	2
Hq. & Hq. Det., Port Bn.	3	2	2	* 60	6
Attached on Landing: Port Company	10	10	8		

* Total for 2 Hqs.

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2. TASKS. Beach Groups are responisble for the execution of the following tasks:

a. Mark hazards to navigation in the vicinity of the beach and determine most suitable landing points.

b. Effect emergency boat repairs.

c. Care for beach casualties and evacuate casualties to ships in accordance with Naval Attack Force and Landing Force Medical Plans.

d. Control boat traffic, including DUKWs afloat, in vicinity of beaches and between ships and shore.

e. Direct landing, retraction and salvage of all boats and craft.

f. Maintain communications with Naval task groups, Naval vessels and M/T store ships.

g. Mark landing beach limits.

h. Establish and mark debarkation points on landing beaches.

i. Unload supplies and material of the landing troops.

j. Remove beach and shallow underwater mines, obstructions and obstacles.

k. Establish and maintain a prisoner of war enclosure and evacuate prisoners of war in ships in accordance with Landing Force instructions.

l. Establish communications with adjacent Beach Groups and forces ashore as required.

m. Construct landing facilities where required.

n. Maintain liaison with senior troop commander within the zone served by the particular Beach Group.

o. Maintain order and direct traffic on and in the vicinity of the beach for various elements using the beach.

p. Facilitate movement of unit personnel and equipment landed on the beach off the beach and insure movement of supplies arriving on the beach into beach dumps at the rate established in the Army plan.

q. Unload all vehicles and supply ships and transport supplies loaded in DUKWs from ship to shore.

r. Select and establish beach dump sites.

s. Organize beach dumps for reception and issuance of supplies and equipment.

t. Maintain a record showing personnel, organizations, material, vehicles and supplies which have been landed on the beach.

u. Maintain a record of supplies issued and to whom and a continual dump level record.

v. Disseminate proper orders or notification in advance to ships, shore parties, attached trasportation, beach dump supply attachments and troops involving changes in logistical plans.

w. Construct and maintain beach roads and exits.

x. Provide for decontamination of gassed areas on the beach.

y. Maintain a control station with copies of all manifests of off-lying ships and a situation map for information of landing units.

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z. Operate emergency motor maintenance service for vehicles damaged in landing, aid vehicles in crossing the beaches and clear the beaches of all stranded vehicles.

aa. Provide local security and defense for beach area.

bb. Establish and maintain de-waterproofing areas and render technical advice on de-waterproofing of vehicles.

cc. Collect and salvage all waterproofing materials.

dd. Collect, salvage and reload on ships all life belts deposited on beaches.

ee. Prepare the smoke plan for screening beach installations and ships standing offshore in conjunction with the Navy and in accordance with the Force and Naval smoke plan, and be responsible for its execution.

ff. Coordinate the antiaircraft protection of the beach with the AAA Group Commander of the Sub-Task Force.

gg. Establish and maintain a bivouac area for staging of replacements or other units landing over the beaches, including messing facilities for all Beach Group personnel and transients.

hh. Operate water points to serve all troops in the vicinity of beaches and establish storage points and handle shore operations in receiving water from LSTs.

ii. Render such reports to higher headquarters as may be required.

jj. Perform additional duties as required.

3. GENERAL MISSIONS OF BEACH GROUP UNITS.

Beach Control Group. Insures the movement of personnel, vehicles and supplies across the beaches in support of a landing operation involving several division Sub-Task Forces.

Beach Group. Insures the movement of personnel, vehicles and supplies across the beach in support of a landing operation involving a division Sub-Task Force.

Battalion Beach Group. Organizes and operates all shore installations necessary for debarkation, supply, evacuation and local security in support of a regimental combat team or combat command.

Engineer Combat (or Shore) Battalion. Commands Combat (or Shore) Battalion and attached service troops and performs all engineer work in beach maintenance area assigned to the battalion necessary to facilitate debarkation, supply, evacuation and local security.

Engineer Combat (or Shore) Company. Organizes, operates and secures all Combat (or Shore) Company installations necessary to debark all personnel, vehicles and supplies in support of a battalion combat team.

Naval Beach Battalion. Surveys beaches, marks and removes underwater obstacles, assists landing craft, makes emergency boat repairs, operates naval shore to ship communications, controls landing craft and DUKW traffic afloat, evacuates casualties and PWs to ships and assists in shore operations when required.

Medical Bn. Hq. Coordinates activities of medical companies in collecting clearing and evacuation of casualties from beach to ship or to higher medical echelons in accordance with medical plan; supervises medical supplies and sanitation.

Medical Companies. Collects and/or clears beach casualties in conjunction with medical detachments and naval beach medical sections.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 3. GENERAL MISSIONS OF BEACH GROUP UNITS - CONT'D.)

MP Company. Guides and enforces traffic and military police regulations in the beach maintenance area.

PW Esct. Guard Co. Receives and guards PWs, operates beach PW enclosures delouses PWs, and processes and evacuates PWs to ships.

Boat Guards. Aids in guarding, delousing, processing and evacuating PWs in beach areas and furnishes ship guards.

Signal Company (Spec). Establishes and maintains radio and telephone communications and message centers for Beach Group Headquarters to highest echelon of associated combat units ashore, to adjacent Beach Groups and intra-Beach Group communications to shore and dumps.

Detachment, Chemical Depot Co. Aids Ordnance Ammo. Company in receipt, segregation and issue of CWS supplies, keeps CWS supply records.

Platoon, Engr. Depot Co. Receives, stores and controls issue of Engineer supplies and keeps dump records.

Ordnance Ammo. Co. Organizes and operates Ordnance dumps including receipt, storage, issue and records of all Ordnance supplies.

Section, QM Gas Supply Co. Organizes and operates all Class III dumps including receipt, storage, issue and records of all Class III supplies.

Platoon, QM Rhd. Co. Organizes and operates all QM Class I and II dumps including receipt, storage, issue and records of QM Class I and II supplies.

Detachment, Signal Depot Co. Organizes and operates Signal dumps including receipt, storage, issue and records of Signal supplies.

Detachment, Signal Repair Co. Aids in operation of Signal dumps, receives and repairs signal equipment.

Air Force Beach Detail. Organizes and operates dumps for AC supplies including identification, receipt, storage, issue and records.

RAF Beach Section. Organizes and operates dumps for RAF supplies, including identification, receipt, storage, issue and records.

Detachment, Regulating Co. Provides beach checkers and regulates and controls Beach Group vehicle movements including DUKWS ashore.

Ordnance Medium Auto Maintenance Co. (DUKW). Establishes and operates de-waterproofing areas including rendering of technical advice on de-waterproofing and salvage of waterproofing materials; maintains Beach Group DUKWs, vehicles and automotive equipment.

Hq. & Hq. Det., QM Bn. (Mob). Coordinates activities of Amphibian and QM truck Companies in transporting supplies and equipment from ship, craft or shore to dumps.

Amphibian Truck Co. Transfers equipment and supplies in DUKWs from ship or craft to dumps.

QM Truck Co. Transfers equipment and supplies in trucks from shore to dumps.

Hq. & Hq. Det., QM Bn. Coordinates activities of QM Service Companies.

QM Service Company. Furnishes personnel to assist in dump and unloading operations.

Platoon, Chemical Decon. Co. Executes chemical decontamination of equipment, vehicles, supplies, areas, roads, bridges and other military objects in the beach maintenance area, exclusive of personnel, and carries out the smoke plan.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 3. GENERAL MISSIONS OF BEACH GROUP UNITS - CONT'D)

Hq. & Hq. Det., Port Bn. Coordinates the activities of the Port Companies; establishes and operates stevedore gear dumps; collects, stores and repairs all cargo handling gear; collects, salvages and prepares all life belts for return to ships and craft.

Port Company. Furnishes personnel for unloading of ships and for dump operations when ashore.

4. SPECIAL TASKS.

a. The following special tasks are allocated to the Alpha Beach Group:

(1) Develop beaches 259 and 261 for initial unloading of vehicles and supplies.

(2) Supply the Air Corps operating the Ramatuelle airstrip over beach 261.

(3) Land and pass the 1st French Inf. Division and 3rd Algerian Division over Alpha beaches on about D ∕ 1.

(4) Open beaches successively westward in the vicinity of La Lavendou and Hyeres as directed by the Beach Control Group.

b. The following special tasks are allocated to the Delta Beach Group:

(1) As soon as the tactical situation permits to develop beach 262 and the adjacent area as the main maintenance area.

(2) To develop the ports of St. Tropez and St. Maxime.

(3) To be prepared to land and pass one French Division over beach 262 on D ∕ 1.

(4) To coordinate with the Air Corps or Aviation Engineers on the mutual development of the Cogolin-Grimaud area for supply dumps and airstrips.

c. The following special tasks are allocated to the Camel Beach Group:

(1) Develop beach 264A and vicinity as the main maintenance area.

(2) Develop the port of St. Raphael.

(3) Land and pass a combat command of the French Armored Division over the beaches on D or D ∕ 1.

(4) Where capture of the port of Toulon is imminent be prepared to move immediately, less the 48th Combat Bn. and attached Beach Group Units, into the port for initial repair and operation.

5. TRAFFIC CONTROL.

a. Traffic control in the beach maintenance areas is a responsibility of the military police of units concerned.

6. MEDICAL CARE AND EVACUATIONS.

a. The medical battalion of the Beach Groups:

(1) Collects casualties in the beach maintenance area.

(2) Receives casualties from forward clearing stations.

(3) Operates beach clearing stations.

(4) Evacuates casualties to ships, craft and planes in accordance with the Army and Navy plans.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 6. MEDICAL CARE AND EVACUATIONS - CONT'D)

b. Normal exchange procedure for replacement of litters and blankets will obtain in all medical units of Beach Groups.

7. PRISONERS OF WAR.

a. Engineers of the Beach Group assisted by the PW Esct. Guard Co. and the Boat Guard Det. will construct the necessary prisoner of war enclosures.

b. Beach Groups will receive, guard, process, delouse and evacuate prisoners of war in accordance with the Army plan.

c. Guards for prisoners of war in transit aboard ship will be provided by the Boat Guard Det. of the Beach Groups.

8. PROCESSING OF BUILD-UP TROOPS.

a. Beach Groups will:

(1) Set aside troop assembly areas.

(2) Mark routes and furnish guides to direct troops landing after the initial assault to the assembly areas.

(3) Establish wire communications between Beach Group Headquarters and assembly areas.

b. Divisions, Corps and Air Force headquarters will maintain representatives in the assembly areas to contact, administor and issue instructions to their units.

c. Assembly areas are not intended for bivouacs but are contact areas in which newly landed units will assemble before moving to join parent organizations.

9. PROCESSING OF BUILD-UP VEHICLES.

a. Vehicle assembly areas will be established as described for troop assembly areas.

10. PROCESSING OF REPLACEMENTS.

a. One Army G-1 Liaison officer will be attached to each Beach Group to receive and process replacements arriving over the beaches.

11. UNIT BAGGAGE AND EQUIPMENT.

a. Unit baggage and equipment (Force marked) not carried on unit transportation will be segregated in the Quartermaster Class II dump. Daily reports of quantities on hand, by Force number, will be made through Beach Control Group to Army Headquarters so that units may be notified.

b. Each unit will furnish as least one officer and sufficient enlisted men to form a guard detail to accompany each separate shipment of unit baggage and barracks bags.

c. Unclaimed baggage will be segregated in Quartermaster Class II dump and reported through Beach Control Group to Army Headquarters with sufficient description for identification.

12. ALLOCATION OF SHIPS AND CRAFT.

a. Cargo ships will be prerouted to destination by Army G-4 before leavir the near shore.

b. Changes in ship routing which may be required by the tactical situatio will be made by Army G-4, through Beach Control Group to the Navy.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 12. ALLOCATION OF SHIS AND CRAFT - CONT'D)

c. Beach Control Group will keep Army G-4 informed daily of the ship unloading situation and their capabilities for unloading supplies.

d. Allocation of landing craft for unloading of supplies will be made by the Navy as requested by Beach Control Group. Craft will be allocated in accordance with tonnage to be handled and the particular needs and conditions existing on the various beaches.

13. PONTOON CAUSEWAYS AND LANDING AIDS.

a. At least fifteen (15) pontoon causeways will be available for the operation and will be allocated according to landing requirements.

b. Pontoon causeways will be installed and operated by the U.S. Navy in accordance with plans of the Beach Group Commander for beach development or of the Beach Control Group Commander.

c. Construction of hards and improvement of landing points on an assigned beach will be the responsibility of the Beach Group concerned.

d. Beach Groups will be responsible for bivouacing and messing the pontoon causeway operating personnel.

e. Naval units installing pontons will be under the command of the Naval Beach Master on which they are installed.

14. Supply of Water from LST'S craft and ships.

a. 15 LSTs will be specially fitted as water carriers, five (5) allocated to each Sub-Task Force. Each of these LSTs will carry between 10,000 and 20,000 gallons and sufficient hose to discharge to tanks set up on the beach. These water carriers should be loaded for late phase unloading to permit organization of the beach water points. They will refill and carry water on each turnaround until no longer required by Army. Beach Groups will be responsible for handling the shore operations necessary for discharging all water.

b. 19 combat loaders will carry 2 - 600 gallon tanks each, complete with pumping equipment. These tanks can be loaded into LCMs and discharged by hose to the beach. They will be on call if needed by Army.

c. 3 - 5000 barrel water barges will be available, one off the center area on D ∕ 1 and one on each flank on D ∕ 2. These barges will be used for supplying water to craft for transfer to shore if necessary.

d. Each Shore Regiment will draw against established credits 32 - 3000 gallon canvas tanks, will transport them to the far shore and install them as required for the receipt of water from craft and estblishment of water points.

15. MINOR PORTS.

a. The following named minor ports exist in the assault area:

St. Raphael
St. Maxime
St. Tropez

b. Rehabilitation, within the limits of improvisation and locally available materials, and subsequent operation will be responsibility of the Beach Group within whose sector these ports lie.

c. It is anticipated that these ports can be utilized for vehicle unloading and for supply unloading from LCTs.

16. BOATS.

a. The Beach Control Group will have two launches available for messenger service from shore to off-lying ships and for inter-beach passage. Each Beach Grou will be provided with one (1) launch for offshore messenger service.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - CONT'D)

17. AGREEMENTS.

a. Between Army and Navy. Joint agreements between Army and Navy for operation ANVIL are published in Navy A.N.T.M. #5 and in Annex #14, ANVIL Outline Plan.

b. Between Army and Air Corps. Agreements between Army and Air Corps are included in Annex #14, ANVIL Outline Plan.

18. LIAISON.

a. Beach Groups will exchange liaison officers with Sub-Task Forces as required.

b. Army will provide Beach Groups with G-1 officers to handle replacements and with liaison officers as required.

c. Base Section will provide supply officers and enlisted clerks to Beach Groups to coordinate dump operations.

19. SECURITY AND DEFENSE.

a. Beach Groups will provide for local ground security of the beach maintenance areas and minor ports against small scale attack from land, sea or air. Sub-Task Forces must render whatever assistance may be necessary against large scale attacks.

b. Beach Group Commanders will coordinate the antiaircraft defense of beach maintenance areas with the AAA Group Commander on the respective beaches.

c. Beach Group Commanders will be responsible for carrying out the smoke plan for beach defense in conjunction with the Navy and Air Corps. Chemical Decontamination troops will be attached to Beach Groups for this purpose.

20. BEACH MARKINGS.

a. The system of beach markings to be used by Beach Groups will be that as published by the I.T.C.

b. Beach Groups will make and post unnumbered panels for pontoon causeways and will furnish to the Navy two white and two blue steady lights with shields for each causeway.

21. SPECIAL PROCEDURES.

a. The following special procedures will be followed by all Beach Groups:

(1) Shore Regiments will draw, against established credits in Engineer Depots, 30 carbon dioxide and 100 - 4½ gallon, water-pump type fire extinguishers. These will be carried to the far shore in organization vehicles or DUKWs and distributed throughout the beach dumps at the earliest possible time. Water type will be filled with sea water.

(2) DUKWs may be required to preload 105mm howitzers and as initial howitzer prime movers and as ammunition trucks. These DUKWs with drivers will be provided by the respective Beach Groups. These DUKWs and drivers will immediately return to the beach area when replaced by normal artillery transportation.

(3) Each Beach Group will draw 130 cargo nets against established credits in Transportation Corps dumps, and will transport them to the far shore in DUKWs. Slings for vehicle unloading and additional cargo nets will be loaded on M/T Store Ships. A total of 6000 cargo nets will be available for the operation. Upon completion of unloading all cargo handling gear not ship's complement will be removed from the ships, transported to shore and placed in separate dumps.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - SPECIAL PROCEDURES (21' CONT'D)

(4) DUKWS which cannot be assault loaded will be top-loaded on M/T Store Ships. Drivers will accompany each DUKW. Plans must include definite instructions for unloading and redezvous of these DUKWs when required for supply unloading.

(5) Approximately 20 tons of pierced steel plank per Beach Group will be loaded with Engineer stores on the first convoy and upon unloading will be available for beach road improvement. Additional plank will arrive on subsequent convoys.

(6) Whenever possible general cargo in LCTs will remain netted and be unloaded by crane to trucks at the shoreline.

(7) Flatted cargo on M/T Store Ships will not be unloaded except by direction of Army G-4, through Beach Control Group.

(8) A central map depot will be established by corps. It is not anticipated that there will be any maps issued from beach dumps. The Engineer Depot Platoon will segregate all maps and they will picked up by the Map Depot Detachment. It is particularly important that all maps landed over beaches reach the beach dumps at the earliest possible moment. Beach Group Commanders will be responsible to see that this is effected.

(9) Arm bands will be available for issue to Beach Group personnel actually working on the beaches.

(10) 130 roller conveyors will be available to each shore regiment.

(11) Upon arrival of ships off beaches the Beach Group Commander will arrange to have a manifest picked up from the ship.

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SECTION IV - REPORTS

1. The Beach Control Group will render the following daily reports to Army G-1, G-3 and G-4 for the preceding 24 hour period for all beach operations.

a. Ship unloading and status.

b. Personnel and vehicles by units unloaded.

c. Casualty and P/W evacuation.

d. Beach Dump receipt, issue and level.

e. Report of administrative interest.

2. The Beach Groups will submit the following daily reports to the Beach Control Group for the preceding 24 hour period for beaches under their control.

a. Ship unloading and status.

b. Personnel and vehicles by units unloaded.

c. Casualty and P/W evacuation.

d. Beach Dump receipt, issue and level by service & class.

e. Report of administrative interest.

3. The Beach Groups will submit the following weekly status of supply reports.

a. Engineer.

b. Quartermaster.

[redacted] forms and instructions for these reports required are shown in appendix [redacted]

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Ref No X-1343

HEADQUARTERS SEVENTH ARMY
APO 758

ANNEX NO. 10
to FO No. 1, "ANVIL"

31 July 1944

CHEMICAL PLAN

1. Chemical units previously attached to sub-task forces will be employed as directed by sub-task force commanders. Chemical Mortar Battalions or detachments thereof will be in direct support of attacking Infantry, providing 4.2 inch Chemical Mortar HE and WP fire. Chemical Decontaminating Companies or detachments thereof will be available for third and fourth echelon decontamination, and in addition, will be equipped to furnish smoke protection to beaches and/or small port installations.

2. Reserves, not sub-attached, to be employed as directed by the Commanding General, Seventh Army.

a. ____ Chemical Mortar Battalion (Mtz). (To be designated later).
b. Headquarters 22nd Chemical Smoke Generator Battalion.
c. 69th Chemical Smoke Generator Company.
d. 78th Chemical Smoke Generator Company.

3. Use of smoke for protection of beaches and small ports.

a. The decision to make smoke on beaches and in small ports will be made by the Beach Group Commander concerned in cooperation with the Navy Beachmaster. Orders to make smoke on beaches and in small ports will be issued by the Beach Group Commander concerned.

4. Use of chemical agents.

a. No toxic chemical munitions will be employed by this Force except by command of the Commanding General, Seventh Army.

b. Any use of toxic chemical agents by the enemy will be reported immediately to Headquarters, Seventh Army, by quickest possible means.

By Command of MAJOR GENERAL PATCH:

A. A. WHITE
Brigadier General, GSC
Chief of Staff

OFFICIAL:

John S. Guthrie

JOHN S. GUTHRIE
Colonel, GSC
A. C. of S., G-3

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BIGOT-ANVIL

HEADQUARTERS SEVENTH ARMY
APO 758 US ARMY

AAW/JH/hr

Copy No. 10
Ref. No. X-1339

29 July 1944

ANNEX NO. 11

TO F.O. NO. 1 ANVIL

FIELD ARTILLERY ANNEX

MAPS: GSGS 2738, FRANCE, 1/250,000, Sheets 37, 38, 42, and 43.

1. Intelligence. See Annex 2 (Intelligence).

2. The artillery with the Army supports the operation.

3. a. INITIAL ALLOCATION OF ARTILLERY:

(1) Attached to VI Corps:

(a) U.S. units.

2nd FA Observation Bn
Hq & Hq Battery 6th FA Group
Hq & Hq Battery 17th FA Group
Hq & Hq Battery 35th FA Group
Hq & Hq Battery 36th FA Group
Hq & Hq Battery 405th FA Group
59th Armored FA Bn
69th Armored FA Bn
93rd Armored FA Bn
935th FA Bn (4.5" Gun)
17th FA Bn (155mm Howitzer)
141st FA Bn (155mm Howitzer)
634th FA Bn (155mm Howitzer)
933rd FA Bn (155mm Howitzer)
937th FA Bn (155mm Howitzer)
938th FA Bn (155mm Howitzer)
36th FA Bn (155mm Gun)
976th FA Bn (155mm Gun)
977th FA Bn (155mm Gun)
194th FA Bn (8" Howitzer)
Detachments of 575th FA Bn:
Naval Shore Fire Control Parties:
Parties #5, 6, 7, 8, and 9 to 3rd Inf Div.
Parties #14, 15, 16, 17, and 18 to 36th Inf Div.
Parties #23, 24, 25, 26, and 27 to 45th Inf Div.

Radio Operators for Naval Liaison Officers:
Team #1 to VI Corps Artillery
Team #2 to 3rd Inf Div
Team #3 to 36th Inf Div
Team #4 to 45th Inf Div

601st Tank Destroyer Bn (SP) (to 3rd Inf Div)
636th Tank Destroyer Bn (SP) (to 36th Inf Div)
645th Tank Destroyer Bn (SP) (to 45th Inf Div)
776th Tank Destroyer Bn (SP)

(b) French Unit:

Detachment 9e Regiment de Chasseurs d'Afrique
(for Combat Command of 1e DB)

(2) Attached to Armee "B":

(a) U. S. units:

Hq & Hq Battery 13th FA Brigade
1st FA Observation Bn

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Annex No. 11 to F.O. No. 1 ANVIL, Hq Seventh Army, Fld Arty Annex, 29 July 44.

Hq & Hq Battery 194th FA Group
Hq & Hq Battery 421st FA Group
601st FA Bn (75mm Howitzer, Pack)
939th FA Bn (4.5" Gun)
630th FA Bn (8" Howitzer)
995th FA Bn (8" Howitzer)
Detachment 575th FA Bn:

Radio personnel (to 13th FA Brigade)

(b) French Units:

101e Groupe d'Observation
102e Groupe d'Observation
Etat-Major du Groupement d'Artillerie #1
Etat-Major du Groupement d'Artillerie #2
Etat-Major du Groupement d'Artillerie #3
Etat-Major du Groupement d'Artillerie #4
Etat-Major du Groupement d'Artillerie #5
1e Groupe du 64e Regiment d'Artillerie (105mm Howitzer)
2e Groupe du 64e Regiment d'Artillerie (105mm Howitzer)
3e Groupe du 64e Regiment d'Artillerie (105mm Howitzer)
1e Groupe du 65e Regiment d'Artillerie (155mm Howitzer)
2e Groupe du 65e Regiment d'Artillerie (155mm Gun)
3e Groupe du 65e Regiment d'Artillerie (155mm Howitzer)
1e Groupe du 66e Regiment d'Artillerie (155mm Howitzer)
2e Groupe du 66e Regiment d'Artillerie (155mm Gun)
3e Groupe du 66e Regiment d'Artillerie (155mm Howitzer)
1e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
2e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
3e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
4e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
1e Groupe du Regiment d'Artillerie Coloniale de l'Afrique Occidentale Francaise (155mm Howitzer)
2e Groupe du Regiment d'Artillerie Coloniale de l'Afrique Occidentale Francaise (155mm Howitzer)
3e Groupe du Regiment d'Artillerie Coloniale de l'Afrique Occidentale Francaise (155mm Howitzer)
7e Regiment de Chasseurs d'Afrique (to 1e DMI)
8e Regiment de Chasseurs d'Afrique (to 3e DIA)
9e Regiment de Chasseurs d'Afrique (less detachment) (to 1e DB)
11e Regiment de Chasseurs d'Afrique (to 5e DB)
Regiment Coloniale de Chasseurs de Chars (to 9e DIC)
2e Dragons (to 2e DIM)

(c) British units:

9 Forward Observer Parties.

(3) Attached to 1st Airborne Task Force:

(a) U. S. units:

460th Parachute FA Bn (75mm Howitzer)
463rd Parachute FA Bn (75mm Howitzer)
602nd FA Bn (75mm Howitzer, Pack) (Temporary Glider Bn)

(b) British units:

2 Forward Observer Parties.

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Annex No. 11 to F.O. No. 1 ANVIL, Hq Seventh Army, Fld Arty Annex, 29 July 44.

(4) Attached to 1st Special Service Force:

Detachment 575th FA Bn:
Naval Shore Fire Control Parties #28, #29, #30.

(5) Attached to French Groupe de Commandos:

2 British Forward Observer Parties.

(6) Retained under Army control:

932nd FA Bn (8" Howitzer)
697th FA Bn (240mm Howitzer) (plus 2 sections 575th FA Bn (8" Gun))
698th FA Bn (240mm Howitzer) (plus 2 sections 575th FA Bn (8" Gun))
575th FA Bn (less Btry C) (8" Gun) (less detachments)
4th Depot Unit, Army (AAF)

b. Artillery with the VI Corps.

(1) Support VI Corps.

(2) Answer calls for fire from 1st A/B Task Force until VI Corps assumes control of that Force.

(3) Be prepared to support the II French Corps during the relief of the 3rd Division by that Corps.

(4) Be prepared to continue the support of the II French Corps with 2 battalions of Corps Artillery on order from the Army Commander.

(5) Report the location of safety limits for artillery fire to the Division Artillery Commander, 1st A/B Task Force, every two hours after H hour. This report must be brief, giving six-place coordinates of points defining a general line beyond which fire from A/B artillery may endanger troops of the VI Corps. Negative report is required.

c. Artillery with II French Corps.

(1) Support II French Corps.

d. Artillery with 1st A/B Task Force.

(1) Report the location of safety limits for Artillery fire to the Division Artillery Comma nder, 45th Infantry Division, every two hours after H hour. This report must be brief, giving six-place coordinates of points on a general line inclosing an area within which artillery fire may endanger friendly troops. Negative report is required.

(2) A/B Artillery will not fire beyond safety limits prescribed by VI Corps. Emergency targets beyond that line will be reported to Division Artillery Commander, 45th Infantry Division.

x. (1) (a) Naval Gunfire Support will be in accordance with Gunfire Support Plan, Annex B to Operations Plan 4-44, Naval Commander W.T.F. (extract attached as Annex 12 to F.O. 1).

(b) When any commander no longer needs naval gunfire support (or has advanced out of naval gun range), he will promptly notify the next higher headquarters, so that efficient redistribution of fire support ships may be accomplished.

(c) VI Corps be prepared to release those Naval Shore Fire Control Parties not composed of organic division personnel on Army order.

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(2) No fire will be delivered within safety limits prescribed by separate task force commanders except on call from the observers of the force concerned or on positively identified, observed enemy installations which threaten or hinder the advance. Initial safety limits are given as "No Fire Lines" on attached overlays (Incls 1 & 2 to Annex 11)

(3) (a) Yellow smoke shell will not be used by artillery.

(b) Red smoke shell will not be used for marking targets for bombing missions.

(c) Toxic chemical shells will not be used.

(4) (a) Supply of ammunition for all type weapons is critical. Allocations of ammunition will be made by this headquarters for 15-day periods until this situation is relieved. (See Par 3 b, Opns Memo No. 5)

(b) 155mm Howitzer, M1 and M1918: A supply of projectiles HE M102 with white bag propelling charge will be landed over each beach for use with the M1 howitzers. As soon as it becomes available, ammunition refills will be made from this type ammunition until 30% of basic load has been reached. This percentage w ill be maintained thereafter.

(5) (a) Photo reconnaissance. See Annex No. 2 (Intelligence)

(b) Corps and Division Artillery Commanders will submit daily requests, through G-2 channels, to Ass't Chief of Staff, G-2, Army, for Tac R missions and for observation by fighter aircraft of artillery fires. Requests will be submitted by 1900 on the day prior to the day on which the mission is to be flown. Army Artillery Officer will be informed, through artillery channels, of artillery missions requested. Emergency missions may be requested at any time, following the above procedure.

(c) Corps Arty Commanders will be notified by the Army Arty Officer the number of missions allotted for observation of artillery fires by fighter aircraft and the A.C. Sqdn. which will perform these missions. Details of communications and briefing will be arranged directly between the A.C. Sqdn. and the Corps Artillery.

(d) Air O.P. observation within Divisions and their attached Field Artillery units will be coordinated by the Division Artillery Air Officers during the initial phase of the assault. When the attached battalions revert to Corps Artillery control the Corps Artillery Air Officer will coordinate Air O.P. observation of these battalions through the Group Air Officers. The Division Artillery Air Officers will continue the coordination of Air O.P. observation within their Divisions.

(6) (a) For distribution of maps and mosaics, see Annex No. 8, Engineer, and Annex No. 2, Intelligence.

An annotated, uncontrolled Beach Mosaic, 1/10,000, will be distributed to assault artillery units.

An uncontrolled mosaic, 1/25,000, will be distributed to all artillery units.

Distribution of air photos will be by Corps, through PRU agencies.

(b) (1) All artillery survey will be based on the "old" Triangulation of France, "Trig Lists" for which will be distributed initially to FA Observation Battalions and Division Artillery Hq.

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(2) When operating with maps containing both the LAMBERT ZONE II (red) and the NORTH ITALY ZONE (brown) grids, either grid may be extended into the zone of the other by connecting the ticks on the border of the map, and coordinates read from the desired grid. However, when a point is designated to other than the originating unit, the coordinates will be read from the printed grid and not from an extended grid.

(7) Meteorological Information: Field Artillery Observation Battalions will send metro messages to Div Arty Headquarters and Corps Arty Battalions. An A.C. mobile weather unit will be ashore by D + 3 or D + 4 and will broadcast "Temperature Density Messages" on a frequency of 4145 KC. Messages from radio sonde observations taken on Corsica will be re-broadcast at 0400Z and at 1600Z. Predictions will be broadcast at 0530Z, 1130Z, 1730Z, and 2330Z. These messages will not be encoded.

(8) When not needed in their primary role, Tank Destroyers may be used in their secondary roles; as artillery to reinforce the fires of the organic artillery, or as assault artillery to furnish direct fire support for the infantry.

4. a. Ammunition resupply - see Annex No. 4 to Administrative Instructions No. 1, Headquarters Force 163, dated 20 June 1944, Section III, paragraph 3 b (1). When excess level is authorized, unit commanders will be responsible for its protection and evacuation. If ammunition must be abandoned by reason of displacement, notify the ASP or Army Ammunition Office, at once, the location and amount of abandoned ammunition and whether the unit can return for it. In all possible cases resupply will be made from abandoned ammunition until stock is exhausted.

b. Naval Shore Fire Control Parties and all other units using special equipment during the assault will be prepared to turn this equipment in promptly when called upon to do so.

5. Signal Communications.

a. Normal radio nets - see Training Memorandum No. 1, Seventh Army.

b. Communications between artillery units and high performance aircraft - SCR 542.

c. A/B - seaborne artillery communications, see SOI and Signal Plan, 1st A/B Task Force.

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:

John S. Guthrie

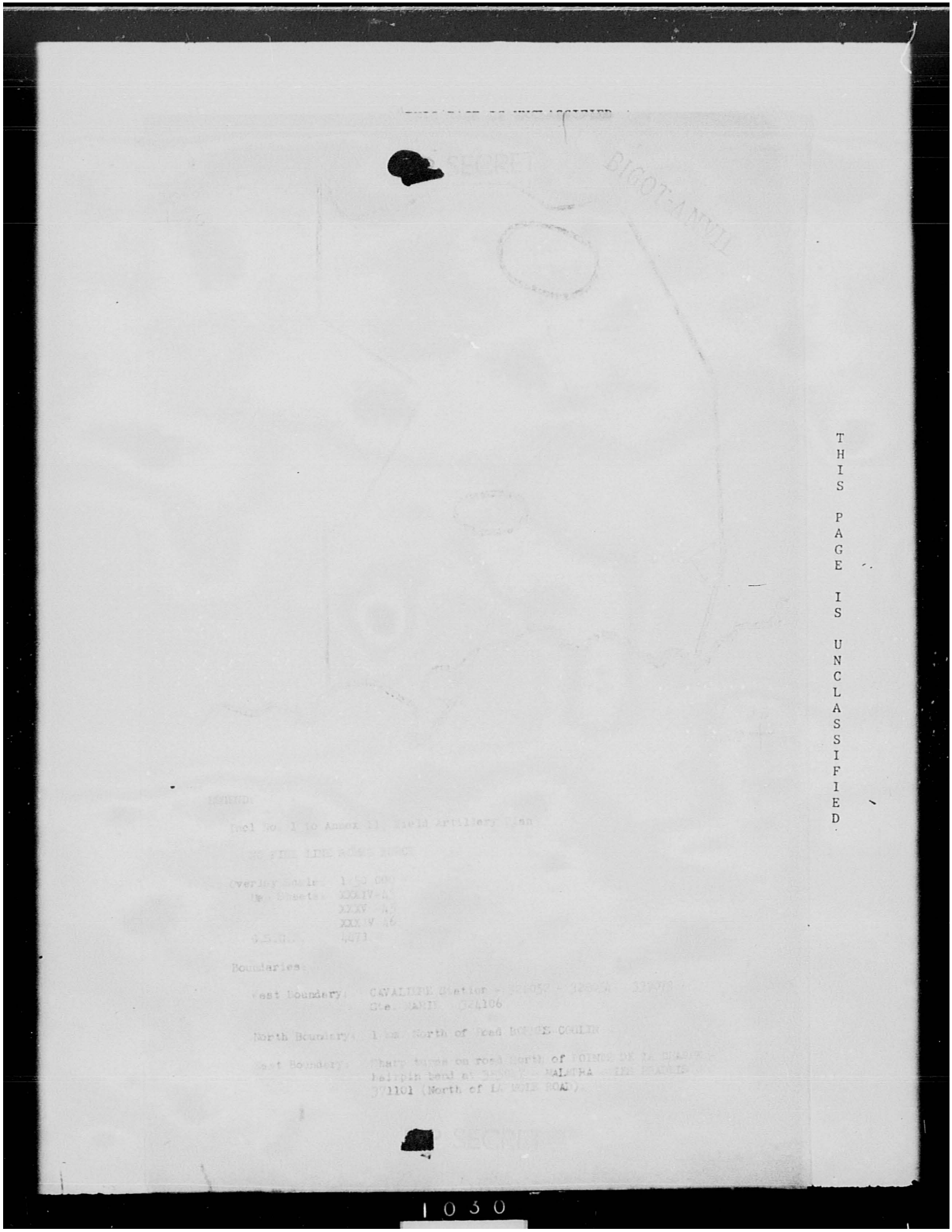
JOHN S. GUTHRIE,
Colonel, GSC,
A.C. of S., G-3.

2 INCLOSURES:
#1 - No Fire Line, ROMEO Force
#2 - Bomb Line and No Fire Line, RUGBY Force

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HEADQUARTERS SEVENTH ARMY
APO # 758

29 July 1944

ANNEX NO. 12
To F.O. NO. 1 ANVIL

For information of Army units, extracts are quoted from:

ANNEX "B" TO OPERATION PLAN 4-44

OF

NAVAL COMMANDER, WESTERN TASK FORCE

GUNFIRE SUPPORT PLAN

The extracts follow:

"Task Organization.

SUPPORT FORCE - Rear Admiral Davidson, USN.

(a) ALPHA Gunfire Support Group, Rear Admiral Mansfield, R.N.

Battleships.

RAMILLES	1 OBB

Heavy Cruisers.

QUINCY 2 VCS	1 CA

Light Cruisers.

ORION (F) AURORA AJAX BLACK PRINCE GLOIRE	5 CL

Destroyers.

BRITISH	2 DD
UNITED STATES	4 DD

LCF.

LCF 4, 8.	2 LCF

LCG.

LCG 4, 8.	2 LCG
LCT(R)	10 LCT(R)

(b) DELTA Gunfire Support Group, Rear Admiral Bryant, USN.

Battleships.

NEVADA 2 VCS TEXAS (F) 2 VCS	2 OBB

Light Cruisers.

PHILADELPHIA 2 VCS GEORGE LEYGUES (F) Rear Admiral Jaujard, F.N. MONTCALM	3 CL

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French Destroyer/Leaders

LE FANTASQUE LE TERRIBLE LE MALIN	3 DL

Destroyers.

UNITED STATES	8 DD

LCF.

LCF 10, 14.	2 LCF

LCG.

LCG 12, 14.	2 LCG
LCT(R)	6 LCT(R)

(c) CANEL Gunfire Support Group, Rear Admiral Deyo, USN.

Battleships.

ARKANSAS	1 OBB

Heavy Cruisers.

TUSCALOOSA (F)	1 CA

Light Cruisers.

BROOKLYN 2 VOS OMAHA 2 VOS ARGONAUT DUGUAY TROUIN EMILE BERTIN	5 CL

Destroyers.

UNITED STATES	11 DD

LCF.

LCF 16, 17.	2 LCF

LCG.

LCG 20.	1 LCG
LCT(R)	14 LCT(R)

(d) SITKA Gunfire Support Group, Rear Admiral Davidson, USN.

Battleships.

LORRAINE	1 OBB

Heavy Cruisers.

AUGUSTA (F)	1 CA

Light Cruisers.

DIDO	1 CL

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Destroyers.

BRITISH	1 DD
UNITED STATES	2 DD

RESERVES:

CINCINNATI
MARBLEHEAD
JEANNE D'ARC
SIRIUS
Gunfire Support Group Units released from other forces."

"1. Information.

*** *** ***

(d) The British Grid System will be used for the purpose of naval gunfire. Attention is directed to that portion of the assault area where the Brown and Red grid join. To avoid misunderstanding, targets designated in this area must be specified by Grid color and small square letter in addition to coordinates. Furthermore, it must be noted that grid lines do not run true North-South, East-West."

*** *** ***

"2. Gunfire Support Groups will furnish preassault bombardment of prearranged targets and supporting fire as required during the assault and follow up in order to assist ground and airborne troops in landing and in advancing to prescribed objectives."

"3. (a) ALPHA Gunfire Support Group.

(b) DELTA Gunfire Support Group.

(c) CAMEL Gunfire Support Group.

(1) Execute preliminary phased fire support missions as directed by Attack Force Commanders on following basis:

Phase I.

H-70 Begin naval bombardment.

H-60 to H-30 Suspend firing upon receipt of information of arrival of heavy bombers in the assault area, or upon observing arrival, whichever is the earliest.

Phase II.

H-50 to H-20 Resume bombardment ten (10) minutes after heavy bombers have completed mission, or sooner if air spotters report able to see targets.

H-Hour Lift gunfire to flanks of assault beaches.

(2) Use Spotting Officers in LCC as feasible to observe and control close supporting fire on beaches prior to and during the touchdown.

(3) During preliminary aerial bombardment execute counter-battery fire only if directed by Attack Force Commanders."

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"(d) SITKA Gunfire Support Group.

(1) Execute fire missions in support of the SITKA Military Units as directed by the SITKA Attack Force Commander."

"(X) (1) Spotting agencies (FOBs, Shore Fire Control Parties, Artillery Aerial OPs, Naval Aircraft, and Tactical/Reconnaissance Aircraft) furnish adequate description of targets on which fire has been requested. Keep fire support ships advised of positions of own front lines when feasible by use of Combined Assault Code. Use Mediterranean Bombardment Code to indicate type of target, and type of fire required. Use Combined Assault Code when informing fire support ships of prospective movements of own troops.

*** *** ***

(6) Fire Support Group Commanders may direct a shift from a prearranged target to a target of opportunity.

(7) Shore bombardment may be reduced as necessary to repel enemy air, submarine, or surface attack on fire support ships or transport area. If such reduction is necessary, fire support ship concerned will advise spotting agencies.

*** *** ***

(12) All spotting agencies and Fire Support Ships use Mediterranean Bombardment Code. Use frequencies assigned in Communication Annex.

(13) United States Naval Gunfire Liaison Officers will revert to Naval Command upon order from Commander Support Force.

(14) LCS(S) and other craft designated by Attack Force Commanders will support the leading assault wave and Combat Demolition Units."

*** *** ***

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brig. Gen., USA,
Chief of Staff.

OFFICIAL:

JOHN S. GUTHRIE,
Colonel, G.S.C.,
A. C. of S., G-3.

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HEADQUARTERS SEVENTH ARMY
APO 758

ANNEX NO. 15
TO FIELD ORDER #1 "ANVIL"

3 August 1944

SPECIAL INSTRUCTIONS FOR ROMEO AND SITKA FORCES

I. SITKA OPERATION:

a. Troops: 1st SSF (less detn): 2,057 personnel, 2 vehicles.
b. Shipping: 5 APD's, 1 LSI(M), 1 LSI(S).
(40 vehicles and approximately 115 personnel to be shipped to "ANVIL" area in preloaded shipping.)
c. Missions:
(See Para 3c, FO #1, Seventh Army.)

II. ROMEO OPERATION:

a. Troops: French Groupe de Commandos: Approx. 1,000personnel, 8 vehicles.
b. Shipping: 2 LSI(M)s, 1 LSI(S).
(45 vehicles and 71 personnel to be shipped to "ANVIL" area in preloaded Army shipping.)
c. Missions:
(See Para 3d, FO #1, Seventh Army.)

III. GARRISON FORCES FOR THE ISLANDS:

a. Army "B" will provide the following forces to garrison the islands after their capture: (all from the 15th Regt. de Tirailleurs Senegalais)
One infantry company (reduced strength) for LEVANT
One infantry company (reduced strength) for PORT CROS
Two infantry companies (reduced strength) to be prepared to garrison the Island of PORQUEROLLES.
In addition 60 French Naval Personnel will accompany garrison forces.
Total strength of garrison forces not to exceed 500 personnel, including French Naval detachment.
b. Garrison force will be prepared to embark from CORSICA to the assault area on D + 1.
c. The commander of the garrison force will establish liaison with Seventh Army Rear Shore Control section in CORSICA in order to coordinate shipment from CORSICA to the assault area.

IV. AIR AND NAVAL SUPPORT:

a. Air Support for both operations will be coordinated through this headquarters.
b. Naval support will be coordinated with Rear Admiral DAVIDSON, commanding the Naval Attack Force supporting these operations. A Naval Shore Fire Control Party will accompany each force.

V. SUPPLY AND EVACUATION:

a. See Admin Order #1.
b. The garrison force from CORSICA will transport with them seven days supply of rations, water, medical supplies, and one unit of fire for all weapons.

VI. MOVEMENT OF 1ST SSF TO THE MAINLAND:

1st SSF to be prepared to embark in craft and land on the mainland in the vicinity of Beach 259 on the night of D + 1 / D + 2. Exact time of movement to depend on availability of craft.

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VII. COMMAND CHANNELS:

a. The Naval Attack Force commander supporting the operations will command all forces afloat until they are firmly established ashore.
b. Seventh Army will furnish an officer to accompany the Naval Attack Force Commander to represent the Commanding General during these operations.
c. RONCO Force will pass to the control of the VI (US) Corps at H hour, "ANVIL".

By Command of Major General PATCH:

A. A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:

John S. Guthrie

JOHN S. GUTHRIE
Colonel, GSC,
A. C. of S., G-3.

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HEADQUARTERS SEVENTH ARMY
APO #758

BIGOT - ANVIL

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Auth: CG, 7th Army
Init: [redacted]
Date: 31 July 1944

AG 370 - C

31 July 1944
AAM/JSG/car

SUBJECT: Annexes to FO No. 1 ANVIL.

TO : See Distribution.

1. Submitted herewith are the following annexes to Field Order No. 1, ANVIL, dated 29 July 1944:

Annex No 4 - Convoy Plan
Annex No 10 - Chemical Plan
Annex No 11 - Artillery Plan
Annex No 12 - Naval Gunfire Support Plan

2. The following annexes will be issued later:

Annex No 5 - Air Support Plan
Annex No 13 - Special Instructions to the SITKA and ROMEO Forces.

By command of MAJOR GENERAL PATCH:

A. A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL: John S. Guthrie
JOHN S. GUTHRIE,
Colonel, GSC,
A. C. of S., G-3.

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CWS	22
Sig	23 - 24
Beach Control Grp	25
"A" Force	26
VI Corps	27 - 32
Army "B"	33 - 38
French Mission	39 - 40
1st A/B Task Force	41
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HEADQUARTERS SEVENTH ARMY
APO #758

BIGOT - ANVIL

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 6. MEDICAL CARE AND EVACUATIONS - CONT'D)

b. Normal exchange procedure for replacement of litters and blankets will obtain in all medical units of Beach Groups.

7. PRISONERS OF WAR.

a. Engineers of the Beach Group assisted by the PW Escr. Guard Co. and the Boat Guard Det. will construct the necessary prisoner of war enclosures.

b. Beach Groups will receive, guard, process, delouse and evacuate prisoners of war in accordance with the Army plan.

c. Guards for prisoners of war in transit aboard ship will be provided by the Boat Guard Det. of the Beach Groups.

8. PROCESSING OF BUILD-UP TROOPS.

a. Beach Groups will:

(1) Set aside troop assembly areas.

(2) Mark routes and furnish guides to direct troops landing after the initial assault to the assembly areas.

(3) Establish wire communications between Beach Group Headquarters and assembly areas.

b. Divisions, Corps and Air Force headquarters will maintain representatives in the assembly areas to contact, administer and issue instructions to their units.

c. Assembly areas are not intended for bivouacs but are contact areas in which newly landed units will assemble before moving to join parent organizations.

9. PROCESSING OF BUILD-UP VEHICLES.

a. Vehicle assembly areas will be established as described for troop assembly areas.

10. PROCESSING OF REPLACEMENTS.

a. One Army G-1 Liaison officer will be attached to each Beach Group to receive and process replacements arriving over the beaches.

11. UNIT BAGGAGE AND EQUIPMENT.

a. Unit baggage and equipment (Force marked) not carried on unit transportation will be segregated in the Quartermaster Class II dump. Daily reports of quantities on hand, by Force number, will be made through Beach Control Group to Army Headquarters so that units may be notified.

b. Each unit will furnish as least one officer and sufficient enlisted men to form a guard detail to accompany each separate shipment of unit baggage and barracks bags.

c. Unclaimed baggage will be segregated in Quartermaster Class II dump and reported through Beach Control Group to Army Headquarters with sufficient description for identification.

12. ALLOCATION OF SHIPS AND CRAFT.

a. Cargo ships will be prerouted to destination by Army G-4 before leavin the near shore.

b. Changes in ship routing which may be required by the tactical situatic will be made by Army G-4, through Beach Control Group to the Navy.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 12. ALLOCATION OF SHIPS AND CRAFT - CONT'D)

c. Beach Control Group will keep Army G-4 informed daily of the ship unloading situation and their capabilities for unloading supplies.

d. Allocation of landing craft for unloading of supplies will be made by the Navy as requested by Beach Control Group. Craft will be allocated in accordance with tonnage to be handled and the particular needs and conditions existing on the various beaches.

13. PONTOON CAUSEWAYS AND LANDING AIDS.

a. At least fifteen (15) pontoon causeways will be available for the operation and will be allocated according to landing requirements.

b. Pontoon causeways will be installed and operated by the U.S. Navy in accordance with plans of the Beach Group Commander for beach development or of the Beach Control Group Commander.

c. Construction of hards and improvement of landing points on an assigned beach will be the responsibility of the Beach Group concerned.

d. Beach Groups will be responsible for bivouacing and messing the pontoon causeway operating personnel.

e. Naval units installing pontons will be under the command of the Naval Beach Master on which they are installed.

14. Supply of Water from LST's craft and ships.

a. 15 LSTs will be specially fitted as water carriers, five (5) allocated to each Sub-Task Force. Each of these LSTs will carry between 10,000 and 20,000 gallons and sufficient hose to discharge to tanks set up on the beach. These water carriers should be loaded for late phase unloading to permit organization of the beach water points. They will refill and carry water on each turnaround until no longer required by Army. Beach Groups will be responsible for handling the shore operations necessary for discharging all water.

b. 19 combat loaders will carry 2 - 600 gallon tanks each, complete with pumping equipment. These tanks can be loaded into LCMs and discharged by hose to the beach. They will be on call if needed by Army.

c. 3 - 5000 barrel water barges will be available, one off the center area on D ∕ 1 and one on each flank on D ∕ 2. These barges will be used for supplying water to craft for transfer to shore if necessary.

d. Each Shore Regiment will draw against established credits 32 - 3000 gallon canvas tanks, will transport them to the far shore and install them as required for the receipt of water from craft and estblishment of water points.

15. MINOR PORTS.

a. The following named minor ports exist in the assault area:

St. Raphael
St. Maxime
St. Tropez

b. Rehabilitation, within the limits of improvisation and locally available materials, and subsequent operation will be responsibility of the Beach Group within whose sector these ports lie.

c. It is anticipated that these ports can be utilized for vehicle unloading and for supply unloading from LCTs.

16. BOATS.

a. The Beach Control Group will have two launches available for messenger service from shore to off-lying ships and for inter-beach passage. Each Beach Group will be provided with one (1) launch for offshore messenger service.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - CONT'D)

17. AGREEMENTS.

a. Between Army and Navy. Joint agreements between Army and Navy for operation ANVIL are published in Navy A.N.F.M. #5 and in Annex #14, ANVIL Outline Plan.

b. Between Army and Air Corps. Agreements between Army and Air Corps are included in Annex #14, ANVIL Outline Plan.

18. LIAISON.

a. Beach Groups will exchange liaison officers with Sub-Task Forces as required.

b. Army will provide Beach Groups with G-1 officers to handle replacements and with liaison officers as required.

c. Base Section will provide supply officers and enlisted clerks to Beach Groups to coordinate dump operations.

19. SECURITY AND DEFENSE.

a. Beach Groups will provide for local ground security of the beach maintenance areas and minor ports against small scale attack from land, sea or air. Sub-Task Forces must render whatever assistance may be necessary against large scale attacks.

b. Beach Group Commanders will coordinate the antiaircraft defense of beach maintenance areas with the AAA Group Commander on the respective beaches.

c. Beach Group Commanders will be responsible for carrying out the smoke plan for beach defense in conjunction with the Navy and Air Corps. Chemical Decontamination troops will be attached to Beach Groups for this purpose.

20. BEACH MARKINGS.

a. The system of beach markings to be used by Beach Groups will be that as published by the I.T.C.

b. Beach Groups will make and post unnumbered panels for pontoon causeways and will furnish to the Navy two white and two blue steady lights with shields for each causeway.

21. SPECIAL PROCEDURES.

a. The following special procedures will be followed by all Beach Groups:

(1) Shore Regiments will draw, against established credits in Engineer Depots, 30 carbon dioxide and 100 - 4½ gallon, water-pump type fire extinguishers. These will be carried to the far shore in organization vehicles or DUKWs and distributed throughout the beach dumps at the earliest possible time. Water type will be filled with sea water.

(2) DUKWs may be required to preload 105mm howitzers and as initial howitzer prime movers and as ammunition trucks. These DUKWs with drivers will be provided by the respective Beach Groups. These DUKWs and drivers will immediately return to the beach area when replaced by normal artillery transportation.

(3) Each Beach Group will draw 130 cargo nets against established credits in Transportation Corps dumps, and will transport them to the far shore in DUKWs. Slings for vehicle unloading and additional cargo nets will be loaded on L/T Store Ships. A total of 6000 cargo nets will be available for the operation. Upon completion of unloading all cargo handling gear not ship's complement will be removed from the ships, transported to shore and placed in separate dumps.

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SECTION IV - REPORTS

1. The Beach Control Group will render the following daily reports to Army G-1, G-3 and G-4 for the preceding 24 hour period for all beach operations.

a. Ship unloading and status.

b. Personnel and vehicles by units unloaded.

c. Casualty and P/W evacuation.

d. Beach Dump receipt, issue and level.

e. Report of administrative interest.

2. The Beach Groups will submit the following daily reports to the Beach Control Group for the preceding 24 hour period for beaches under their control.

a. Ship unloading and status.

b. Personnel and vehicles by units unloaded.

c. Casualty and P/W evacuation.

d. Beach Dump receipt, issue and level by service & class.

e. Report of administrative interest.

3. The Beach Groups will submit the following weekly status of supply reports.

a. Engineer.

b. Quartermaster.

4. [redacted] Appendix A.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - SPECIAL PROCEDURES (21) CONT'D)

(4) DUKWS which cannot be assault loaded will be top-loaded on M/T Store Ships. Drivers will accompany each DUKW. Plans must include definite instructions for unloading and redezvous of these DUKWs when required for supply unloading.

(5) Approximately 20 tons of pierced steel plank per Beach Group will be loaded with Engineer stores on the first convoy and upon unloading will be available for beach road improvement. Additional plank will arrive on subsequent convoys.

(6) Whenever possible general cargo in LCTs will remain netted and be unloaded by crane to trucks at the shoreline.

(7) Flatted cargo on M/T Store Ships will not be unloaded except by direction of Army G-4, through Beach Control Group.

(8) A central map depot will be established by corps. It is not anticipated that there will be any maps issued from beach dumps. The Engineer Depot Platoon will segregate all maps and they will picked up by the Map Depot Detachment. It is particularly important that all maps landed over beaches reach the beach dumps at the earliest possible moment. Beach Group Commanders will be responsible to see that this is effected.

(9) Arm bands will be available for issue to Beach Group personnel actually working on the beaches.

(10) 130 roller conveyors will be available to each shore regiment.

(11) Upon arrival of ships off beaches the Beach Group Commander will arrange to have a manifest picked up from the ship.

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122

HEADQUARTERS SEVENTH ARMY
A. P. O. # 758

ANNEX NO. 6
TO FIELD ORDER NO. 1, ANVIL

24 July 1944

SIGNAL ORDERS

Maps: South of 44 degrees north and east of 2 degrees east, 1/25,000, GSGS 4411.
FRANCE, 1/50,000, GSGS 4471.
FRANCE, 1/100,000, GSGS 4249.
FRANCE, road maps, 1/200,000, GSGS 4238.
FRANCE, 1/250,000, GSGS 2738.
Target Area Beach Panoramas.
All important towns south of 47 degrees, town plans.
Touring guide for southern FRANCE, throughway town plans.
Collation maps, 1/25,000.
EUROPE, 1/1,000,000, GSGS 2758.
EUROPE, 1/4,000,000, GSGS 2957.

1. a. The Seventh Army, consisting of the VI U.S. Corps, II French Corps, 1st Airborne Task Force, and attached troops, supported by the Naval Western Task Force, and by the XII Tactical Air Command, will move by sea to seize and occupy a beach-head east of TOULON as a base for the assault and capture of TOULON.

b. Initial seaborne assault by the VI U.S. Corps consisting of the 3d, 45th, and 36th U.S. Infantry Divisions. The 1st Airborne Task Force will support the operation by airborne assault prior to H Hour.

c. (1) Initial Command Posts.

(a) Seventh Army:

(1) Afloat: U.S.S. HENRICO (Command Post).
U.S.S. CATOCTIN (Advance Command Post).

(2) Ashore: Vicinity of ST TROPEZ.

(b) II Corps:

(1) Afloat: S.S. BATORY (LSP).

(2) Ashore: Vicinity COGOLIN.

(c) VI Corps:

(1) Afloat: U.S.S. CATOCTIN.

(2) Ashore: Vicinity STE MAXIME.

(2) Axes of Signal Communication:

(a) Seventh Army: ST TROPEZ - TOULON.

(b) II Corps: COGOLIN - LA LONDE - TOULON.

(c) VI Corps: STE MAXIME - LE LUC - BRIGNOLES.

d. Existing communication facilities which may be available in enemy territory are listed in Inclosures to these Signal Orders as follows:

Radio -- Inclosure No. 2 to Annex No. 6, Field Order No. 1, ANVIL
Wire -- Inclosure No. 3 to Annex No. 6, Field Order No. 1, ANVIL
Power -- Inclosure No. 4 to Annex No. 6, Field Order No. 1, ANVIL

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2. a. Signal units listed in Inclosure No. 1 to this Annex will provide communication for Seventh Army afloat and ashore in accordance with AFHQ Signal Instructions and Seventh Army SOI and SOP as modified by this Signal Order. Communication between shipping and landing craft during the assault is under Navy jurisdiction.

3. Seventh Army Signal Units will be employed as follows:

a. U. S. Units

(1) The 117th Signal R.I. Company (less Detachment A) in conjunction with Detachment B 849th Signal Intelligence Service will intercept enemy radio traffic and locate enemy radio transmitters under the supervision of the Seventh Army G-2.

(2) Detachment B, 849th Signal Intelligence Service will forward to Seventh Army G-2 all intelligence derived from operations of the 117th Radio Intelligence Company (less Detachment A).

(3) 207th Signal Depot Company will provide three (3) Storage and Issue Sections, attached to the Beach Control Group, for operation of Signal Supply activities of three beach dumps. The remainder of the Company will establish a Signal depot in the vicinity of the main port as instructed by the Signal Officer, Seventh Army.

(4) 206th Signal Depot Company will assist the 207th Signal Depot Company in the establishment of the main Signal depot.

(5) 590th Signal Depot Company on arrival in assault area will report to the Signal Officer, Seventh Army for instructions.

(6) 177th Signal Repair Company will provide three Repair Teams attached to the Beach Control Group. These detachments, working with the Storage and Issue Sections of the 207th Signal Depot Company will repair Signal equipment received from troops or damaged in shipment. The remainder of the company will establish a Signal repair shop in the vicinity of the main Signal depot, and prepare to dispatch mobile repair teams as directed by Signal Officer, Seventh Army.

(7) 163rd Signal Photographic Company, under direction of the Army Signal Officer and in accordance with existing AFHQ photographic policies, will provide photographic coverage for the Army.

(8) 1st Signal Battalion will provide personnel to operate communications aboard the U.S.S. HENRICO and personnel to augment the permanent Signal Corps Detachment aboard the U.S.S. CATOCTIN while the Seventh Army CP is afloat. Upon arrival in the target area, the 1st Signal Battalion will install, operate and maintain the Communication system of Seventh Army Headquarters.

(9) 28th Signal Construction Battalion will rehabilitate open wire circuits, establish necessary oil pipe line circuits, and establish any needed railroad circuits in the target area.

(10) 27th Signal Construction Battalion will report to the Signal Officer, Seventh Army for instructions on construction, rehabilitation, and maintenance of fixed wire system.

(11) 71st Signal Company, Special will install, operate, and maintain communications system as directed by the Signal Officer, CAMEL Beach Group.

(12) 72nd Signal Company, Special will install, operate, and maintain communication system as directed by the Signal Officer, ALPHA Beach Group.

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(13) [illegible]th Signal Company, Special, will install, operate, and maintain communication system as directed by the Signal Officer DELTA Beach Group.

(14) 226th Signal Operations Company will install, operate, and maintain communications as directed by Commanding Officer, Beach Control Group. Upon release from Beach Control Group, estimated at D plus 30, this unit will operate communications of Rear Echelon, Headquarters Seventh Army.

(15) 250[illegible] Signal Operations Company will operate Base communications installations as directed by the Base Signal Officer.

(16) 248th Signal Operations Company initially will install, operate, and maintain wire communications as directed by the Signal Officer, Seventh Army, and later as directed by the Base Signal Officer.

(17) 239th Signal Operations Company initially will operate communications system for Rear Echelon and Near Shore Control, Seventh Army prior to D Day. Upon arrival in the target area this unit will operate fixed plant in MARSEILLES until replaced by 250 Signal Operation Company.

(18) 814th Signal Service Company (Port) on arrival in target area will report to Signal Officer, Seventh Army for instructions on installation, operation, and maintenance of port communications.

(19) 994th Signal Service Company (Port) on arrival in target area will report to Signal Officer, Seventh Army for instructions on installation, operation, and maintenance of port communications.

(20) 982nd Radio Service Company will furnish a detachment to assist the 1st Signal Battalion in providing radio communication afloat and ashore during the assault phase. In addition, one SCR-299 team will be attached to 163rd Signal Photo Company and one SCR-299 team to rear echelon, 1st Airborne Task Force. The remainder of the company will move as a unit to the target area and report to Signal Officer, Seventh Army for instructions.

(21) 2650th Radio Relay Company on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(22) 6681st Pigeon Company, Detachment, on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(23) First Signal Center Team, attached to VI Corps, will provide Signal Center liaison as directed by VI Corps Signal Officer.

(24) Fifth Signal Center Team on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(25) 6759th Signal Detachment, Overhead, will provide communications for U. S. Liaison Group at French I Corps.

(26) 6693rd Signal Detachment, Overhead, will provide communications for U. S. Liaison Group at French II Corps.

(27) 72nd Liaison Squadron (less one Flight) will provide air messenger service for Seventh Army.

(28) 3151st Signal Information and Monitoring Company, operating in Detachments, will monitor friendly Corps and Division radio nets for tactical information and violations of Signal Security. Tactical information so obtained will be transmitted by radio for the information of G-3 of all units with which SIM detachments are operating. Violations of signal security will be reported to the Signal Officer of the unit to which attached, and to Signal Officer, Seventh Army.

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(29) 6737th Detachment, Inspection and Maintenance (Prov) upon arrival in the target area, will report to Signal Supply Officer, Seventh Army for instructions.

(30) Detachment, 1st Type C Platoon, Signal Photo Mail Company (B) will process v-mail under the supervision of Postal Officer, Seventh Army.

(31) ADLS Detachment, ADLS Service, AFHQ, attached to 1st Signal Battalion will provide ADLS service as directed by Signal Officer, Seventh Army.

b. French Units

(1) 61st Signal Battalion will construct, operate, and maintain II French Corps communications as directed by II French Corps Signal Officer.

(2) 66th Signal Battalion will construct, operate, and maintain French I Corps communications as directed by I Corps Signal Officer.

(3) 806th Signal Construction Battalion on arrival in target area will report to Signal Officer, II French Corps for instructions.

(4) 826th Signal Construction Battalion on arrival in target area will report to Signal Officer, II French Corps.

(5) 812th Signal Construction Battalion on arrival in target area will report to Signal Officer, II French Corps.

(6) 808th Signal Radio Intelligence Platoon and 838th Signal Radio Intelligence Company will locate enemy radio transmitters by radio goniometry, will intercept enemy radio transmitters, and will forward all intelligence so obtained to G-2, II French Corps.

(7) 841st Signal Depot Company initially will provide one (1) Storage and Issue Section to accompany and perform Signal Supply service for the 1st Infantry Division (Fr) and one Storage and Issue Section to accompany and perform Signal Supply service for the 3d Algerian Infantry Division (Fr). These sections will be withdrawn later to establish Army Supply Points as directed by Signal Officer, Seventh Army. The remainder of this company will assist in the establishment of a Signal Depot in the vicinity of the main port as directed by Signal Officer, Seventh Army.

(8) 842nd Signal Depot Company on arrival in the target area will report to Signal Officer, Seventh Army for instructions.

(9) 810th Signal Repair Company will provide two (2) Repair Detachments, each composed of two (2) Radio Repair Teams and one (1) Wire Repair Team, to be attached one (1) each to the 1st Infantry Division (Fr) and the 3d Algerian Infantry Division (Fr). These Repair Detachments initially will work with the Storage and Issue Sections of the 841st Signal Depot Company in repairing damaged Signal equipment received from troops or damaged in shipment. These Repair Detachments will be withdrawn and returned to their parent organization when normal supply and repair facilities are established. The remainder of the Company on arrival in the target area will proceed to the vicinity of the main port to assist in the establishment of a Signal Repair shop. They will report to Signal Officer, Seventh Army for detailed instructions.

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(10) 830th Signal Repair Company on arrival in the target area will proceed to the Signal Repair Shop in the vicinity of the main port and will report immediately to Signal Officer, Seventh Army for detailed instructions.

(11) The following units on arrival in target area will report to Signal Officer, II French Corps:

837 Signal Pigeon Platoon
807/1 Signal Operations Company
827/1 Signal Operations Company
839 Signal Installations Company
829 Signal Installations Company
809 Signal Installations Company

3x (1) Message Centers and Air Messengers - See Message Center and Air Messenger Plan, Inclosure No. 8 to these Signal Orders.

(2) Radio Communications - See Radio Plan, Inclosure No. 5 to these Signal Orders.

(3) Visual Communication - See current Seventh Army Signal Operation Instructions.

(4) Wire Communication - See Wire Plan, Inclosure No. 6 to these Signal Orders.

(5) Cryptographic Instructions - See Cryptographic Plan, Inclosure No. 7 to these Signal Orders.

(6) Photographic Service - Photographic detachments will cover U.S. and French divisions and higher units. Photographic personnel will carry official War Photographer identification cards. Commanders will allow official photographers complete freedom of movement, and will render all possible assistance to them in the performance of their assigned duties.

4. Signal Supply Service

a. Signal Storage, Issue, and Requisition.

(1) A Signal Depot will be established in the target area initially under control of Signal Officer, Seventh Army, and later under control of Signal Officer, Base Section. It is the responsibility of the controlling officer to distribute Signal supplies forward to Army Depots which in turn will distribute Signal supplies to forward Army Supply Points for both U. S. and French Armies, Corps, and Divisions.

(2) Requisitions will be submitted thru Supply channels direct to Supply Points with a copy of each to Signal Officer, Seventh Army.

(3) Signal equipment and supplies peculiar to the Air Force will be the responsibility of XII Air Force Service Command.

b. Signal Repair (Maintenance)

(1) First and second echelon maintenance for U.S. and French units will be the responsibility of using units.

(2) Succeeding echelons of maintenance will be performed by Signal Repair and Depot Companies.

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(3) Maintenance of communications equipment issued to Air Forces will be an Air Force responsibility.

(4) All units authorized echelon repair will draw and carry thirty (30) days supply of expendable spare parts prior to embarkation. No supply of such parts will be available for issue in the assault area until D + 30.

5. See Index No. 1 - 11 to Signal Operation Instructions, Seventh Army.

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brig. Gen., USA,
Chief of Staff.

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Complete distribution to accompany Field Order.

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INCLOSURE NO. 1 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

SEVENTH ARMY SIGNAL TROOP LIST

U.S. SIGNAL UNITS

1st Signal Bn
28 Sig Const Bn
27 Sig Const Bn
57 Sig Bn (Corps)
71 Sig Co Spec
72 Sig Co Spec
74 Sig Co Spec
117 Sig RI Co
163 Sig Photo Co
177 Sig Repair Co
207 Sig Depot Co
206 Sig Depot Co
590 Sig Depot Co
226 Sig Opn Co
250 Sig Opn Co
248 Sig Opn Co
239 Sig Opn Co
814 Sig Serv Co Port
994 Sig Serv Co Port
982 Sig Serv Co Radio (less Det)
2650 Radio Relay Sta (Prov)
Det 6681 Sig Pigeon Co
3151 Sig Monitoring Co
6737 Sig Insp and Maint Det (Prov)
1 Sig Center Team (Fr)
5 Sig Center Team (Fr)
6759 Sig Det Overhead
6693 Sig Det Overhead
849 SIS Det (Type A Ger)
3201 Sig Intel Det (Type B Ger)
Det 1st Type C Plat Sig Photo Mail Co
72 Liaison Sqdn (less 1 Flight)

FRENCH SIGNAL UNITS

61st Corps Sig Bn
66th Corps Sig Bn
806th Sig Const Bn
826th Sig Const Bn
812th Sig Const Bn
837th Sig Pig Plat
838th Sig RI Co
808th Sig RI Plat
807/1 Sig Opn Co
827/1 Sig Opn Co
810th Sig Rep Co
830th Sig Rep Co
841st Sig Dep Co
842nd Sig Dep Co
839th Sig Inst Co (Tg)
829th Sig Inst Co (Tg)
809th Sig Inst Co (Tg)

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INCLOSURE NO. 2 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

ENEMY FIXED RADIO STATIONS

All map sheet numbers and coordinates refer to map GSGS-4040B unless otherwise noted.

Place: On a high point on Cap d'Armes on the S.Coast of Ile de Porquerolles.
Details: A lighthouse consisting of a tower standing on a square building. No masts or aerial arrays can be seen.

Place: 1 mile N.E. of the center of Hyeres; S.W. of the Golf Hotel.
Position: 248SW - 096995.
Details: Radio-telegraph station. Two antenna masts.

Place: Three miles due E. of Hyeres.
Position: 248SW. Grid refs. I 134984 II 132983.
Details: Radio-telegraph station.

Place: Viet. Two and one half miles N. of Hyeres.
Position: 248NW - 083026.
Details: Radio-telegraph stations. Two sixty foot masts. Personnel consists of two officers and twenty-five men.

Position: 239078 - 247079 map XXXIV-45. Map of Southeast FRANCE, 1/50,000.
Details: Six towers. Possibly radio or radar.

Position: 979968 map XXXIII-46 384. Map of Southeast FRANCE, 1/50,000.
Details: Probable radar apparatus.

Place: Toulon/La Cran.
Details: Radio-telegraph station. 31 antenna masts from 55 to 800 feet in height are in use. Several buildings. Transmitters communicating with submarines. In German hands since 27 November 1942.

Place: Toulon. In the Marine Prefecture, Place d'Armes.
Details: Radio-telegraph. Central receiving and transmitting with remote control of the transmitters at Mourillon and La Cran. In German hands since 27 November 1942.

Place: Toulon. On the quay of submarine boat station N. of the Canal du Mourillon.
Details: Radio-telegraph station. Has been the main naval, short, medium and long wave transmitting station for many years. Remotely controlled from the Marine Prefecture or from Fort Lamalgue. Three self supporting masts 224' high. Operating buildings are in a walled enclosure between the masts. In German hands since 27 November 1942.

Place: Toulon. At Fort Lamalgue.
Position: 248SW - 937966.
Details: Radio-telegraph station. Intended as a substitute station for the one at the Marine Prefecture. In German hands since 27 November 1942.

Place: Toulon. At N.E. end of the battery on the Pointe de Pipady S. of Toulon.
Position: 248SW - 926958.
Details: One lattice mast and one building. Described as "Radio goniometrique de la Mitre". Controlled from Fort Lamalgue.

Place: Cepet. Transmitters 400 yards E. of the St. Mandrier aeradio station. Receivers S. of Cape Cepet.
Position: Transmitters 248SW - 932930. Receivers 939921.
Details: Radio-telegraph, CW and MCW. D/F Station (maritime).

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Place: St Raphael/Frejus. On the road passing the "Lanterne d'Auguste" leading to the Frejus beach promenade almost opposite the water-distilling plant.
Position: 237SW - 578346.
Details: Radio-telegraph. Probably operated from a square shaped house near a 30' aerial. The house is connected to the seaplane base by an overhead wire.

Place: St Henri; at a place called La Bie (not shown on map); just SW of St Henri.
Position: Approximately 235SW - 428220.
Details: Radio-telegraph station. No details.

Place: Aix-En-Provence on the Boul. Zola in the NE part of the town, in a former school.
Details: Radio-telegraph station. Naval CP or Hq.

Place: Aix-En-Provence. At Pigonnet, in the S.W. outskirts of Aix, just behind the asylum, on the roof of which Red Crosses have been painted.
Position: 235NW - 508404.
Place: At a place called Les Platrieres, 2 miles N.N.W. of Aix, on the road to Avignon.
Position: 235NW - 498433.
Details: Both stations probably S.W. with 30 KW input power available. The second station is barbed-wire enclosed and under constant guard.

Place: Cap Camarat.
Position: 248NE - 525093.
Details: Coast watcher radar. Within an emplacement near the lighthouse and Semaphore station on the cape.

Place: Toulon. 100 yards S.W. of lighthouse at Pte. Rascas, on peninsula 3 miles south of Toulon.
Position: 248SW - 938917.
Details: Possible radar of coast watcher or Freya type. On high point of land, 150' - 200' above sea level, steep slopes toward the sea. About 300 yards S.W. of the battery Haute du Cap Cepet. Heavily defended. At immediate site there is a light 3-gun battery and a 4-gun c/d battery.

Position: 915918 map XXXIII-46 586.
Details: Radar coast-watcher.

Position: 888921 map XXXIII-46 586.
Details: RGL with the DP battery.

Position: 868892 map XXXIII-46 586.
Details: Probable radar. Two buildings with station.

Position: 935931 map XXXIII-46 7 & 8.
Details: Radar apparatus (Possible Wurzburg).

Place: La Ciotat. In a villa facing the sea, next to the "Mairie". Information from other sources reports a transmitting station on the highest hill at the back of the town.
Position: 247NE - 661025.
Details: Radio-telegraph station.

Place: St Vallier, 13 miles N.N.W. of Cannes.
Position: 225SW - 635654.
Details: Said to be a 5 KW transmitting station, supplied power from the station at La Siagne, and formerly used by the Italians for communications with Corsica.

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Place: Antibes in the area bounded by the stream "la Brague", the R.N. 7 from Antibes to Nice and the road branching off it and leading to Biot; 2 miles N. of Antibes.
Position: 237NW - 862568.
Details: Broadcasting station, PTT Nice-Cote d'Azur. Surrounded by barbed-wire and under constant guard. Three AA and three antitank guns to the N.W. at approximately 849582. Single mast 348' high with a small building at the foot. This building is connected by cable with a group of buildings.

Place: Antibes. On the plateau Fleuri (plateau Saint-Jean), 1 1/4 mile W.N.W. of the center of Antibes and 2 miles S.W. of the Nice-Cote d'Azur Broadcasting station.
Position: 237NW - 843541.
Details: Broadcasting station. Private; known as "Radio Mediterranee". 25 KW on 1321 KC's.

Place: Antibes at the seaplane base, immediately N. of Antibes, on the W. side of the harbour.
Position: Transmitting 237NW - 865541. D/F receiving 867546.
Details: Aeradio and D/F.

Place: Cagnes-Sur-Mer. Close to the shore 3/4 mile S.E. of Cagnes-Sur-Mer, 2 miles S.W. of St Laurent and about 600 yards N.E. of the mouth of the Cagnes river.
Position: 225SE - 887620.
Details: Radio-telegraph, MCW. Two 90' lattice masts 230' apart, small building between masts.

Place: Cagnes-Sur-Mer at the Chateau on the top of the hill on which Cagnes is situated.
Position: 225SE - 8763.
Details: Radio-telegraph and D/F. Stated to be a D/F array on the roof and a radio-telegraph transmitter and receiver in the cellar.

Place: One mile E.S.E. of Cagnes-Sur-Mer, 1 1/2 miles S.W. of St Laurent and 1 mile N.E. of the mouth of the Cagnes river.
Position: 225SE - 895626.
Details: Radio-telegraph. Single mast, large building with a tower capable of supporting one end of an antenna.

Place: Nice/La Californie. North of the road bounding the airfield located 3 1/2 miles S.W. of Nice, on the coast and about 1,000 yards S.E. of Route Nat. No. 7 and the main Cannes-Paris railway.
Position: 225SE - 933631.
Details: Radio-telegraph, German Air Force. Two dismountable aerials and apparatus in a small house just east of them.

Place: Marseille.
Position: On the top floor of the works of Lagier and Co. 2, Place General Ferrie. Just S.E. of the Gare du Prado.
Details: Probable jamming station. There are said to be 16, 500 W. transmitters with inefficient operators.

Place: Marseille, at the Filley barracks, 34 Montee de l'Observatoire. The Observatory is 3/4 mile W.N.W. of the Gare St Charles, in the N. part of the Zoological Gardens, just S.W. of an aqueduct.
Position: 247NW - 480163.
Details: Army radio-telegraph station. In May 1943 station was said to have been closed by the Italians and could be restored within an hour. A Mr. Delfosse, of unknown sentiments, residing at 210 Bvd. de la Corderie was stated to be acquainted with the installation. The Range was said to be 400 Km.

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Place: Marseille at the Villa l'Angelus in the Chemin Du Roucas Blanc.
Position: 247NW - 458142 - 459134.
Details: Stated to be a powerful radio-telegraph station. Important AA Hq in the Villa.

Place: Marseille on the Quai des Anglais, W. of the Bassin de la Gare Maritime.
Position: 247NW - 449172.
Details: Radio-telegraph (coastal?), 1 or 3 KW on 368-500 KC's. CW or MCW. Two 140' square-sectioned, tapering, lattice masts, 262' apart. Three buildings on the Quai are probably the operational buildings.

Place: Marseille/Realtort at the southern end of the Realtort reservoir, on the road from Aix-En-Provence to Marignance; about 20 Km NNE of Marseille.
Position: 235SW - 419334.
Details: Broadcasting station. 100 KW on 749 KC's. One tall square antenna mast, several buildings. Considerable installation equipment data is available.

Place: Marseille/Marignane 1/2 mile E. of Etand de Bolmon, 1/4 mile S.W. of Marignane.
Position: 335SW - 326279.
Details: Aeradio, D/F and Radio-beacon. 4 masts, laid out in the form of a diamond, with two buildings between the masts.

Place: Marseille/Marignane.
Position: 235 SW - 328313.
Details: A single tapering lattice mast within a walled enclosure with a 28' square camouflaged building. A former French radio-telegraph station. The Germans have installed a radio-telegraph and D/F station 300 yards to the E.N.E.

Place: Sospel.
Position: 225 NE. a. 088885, 1 mile W. of Sospel. b. 065877, Col de Brans. c. At pointe de 3 Communes - 8 1/2 miles N. of Sospel. d. Approximately 0494 - at Peira Cava.
Details: These stations were manned by Italians; it is not known whether they are still in existence.

Place: Cap Martin at the semaphore station.
Position: 225SE - 144741.
Details: Naval personnel of 20 including 6 radio-telegraph operators (short-wave). Transmitter said to be at Mont Agel.

Place: Marseille. Within the Fort at Mont Rose, 4 1/2 miles SSW of Marseille.
Position: Pin point not given.
Details: Radar station with adjacent Giant Wurzburg 45 yards S.W.

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INCLOSURE NO. 3 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

ENEMY WIRE COMMUNICATIONS

1. General

a. The whole of the civil telephone and telegraph system in FRANCE is under the control of the State and administered by the Ministere des Postes, Telegraphes et Telephones, now called the Ministry of Communications.

b. The Telephone and Telegraph networks are almost identical and almost every commune has both services.

c. Southern FRANCE before its occupation had extensive communication facilities. The Germans have supplemented these but information is slight.

d. There are approximately 13,000 km. of underground cables now in FRANCE. Some of the later developments were the result of demands made by the French general staff and of work carried out by the Germans to build up the defense system.

e. Military personnel are on guard at all the various telephone and telegraph systems. It can be assumed that these guards are also trained in the destruction of the equipment and that extensive damage can be anticipated.

f. The enemy is known to make special efforts to mine and booby-trap communication equipment, so extra precautions must be taken to prevent casualties to personnel from these agencies.

2. Telephone Exchanges

a. Equipment

(1) Over half the exchanges in FRANCE are manual, of central battery and magneto types, but these have less than half the subscribers. There are also many rural dial and semi-automatic exchanges. Both manual and semi-automatic centrals may use magneto telephones. Most semi-automatics are of Thomson-Houston make. Automatic exchanges used widely in southern FRANCE are largely of the R-6 type, employing a single-motion ratchet driven switch. Le Materiel Telephonique (LMT), an ITT subsidiary, has supplied much of the telephone and other equipment used in France. In addition there are R.7-A rotary type systems, R.7-D rotary type systems, and a few Strowger systems being used.

b. Organization

The inter-urban telephone network is organized into several classes of bureaus: centers of transit, of distribution, of groups, and the local bureaus. The local bureau connects its own subscribers with each other, with the group center, and perhaps directly with another bureau. The group center makes trunk connections for all communications in the zone it serves, with the exception of calls exchanged directly by local bureaus. The distribution center is intermediary between the group center and the transit center, and is often lacking. There are about thirty centers of transit in FRANCE, of which five are key centers of transit: PARIS, LYON, MARSEILLE, BORDEAUX, and STRASBOURG. The key centers are all connected by direct trunk circuits: a center of transit can reach any other by direct special circuit, or through a single key transit center.

c. Automatic Exchanges

The cities listed below have either local automatic or rural automatic

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exchanges. Information is not available for those cities not listed.

City	Location of Exchange	Type	No. of lines
Agen	Blvd Scaliger. 200 M. W. of Repeater station	R6	———
Antibes	PTT Bldg, rue Lacan & Blvd Paul Doumer	R6	———
Beziers	———	R6	———
Cannes	———	R6	———
Carcassonne	1st floor, Hotel des Postes, rue de la Prefecture	R6	1,500
Clermont-Ferrand	2d floor, Place Delille (probably) in the Mairie, Place Forrige	R6	———
Grasse	Hotel des Postes, Place Cassola	R6	———
Hyeres	———	R6	———
Limoges	Rue Edouard Vaillant	R6	———
Lyons (6 auto exchgs)			
(1) Burdeau	Rue Burdeau	R6	10,000
(2) Franklin	Rue Franklin corner of Place Ampere	R6	6,500
(3) Lalande	Rue Lalande	R6	10,000
(4) Moncey	Rue Edison	R6	7,000
(5) Parmentier	Rue Edison	—	———
(6) Villeurbanne	Ave Henri-Barbusse, Marseilles (5 auto exchgs)		
(1) Colbert	Hotel Des Postes, rue Colbert	7A	11,500
(2) Dragon	———	7A	9,000
(3) Lycee	———	—	———
(4) National	———	—	———
(5) Garibaldi	———	—	———
Monaco	Corner of rue Caroline & rue Grimaldi	R6	———
Montpellier	52 rue de Toulouse, formerly ave G. Clemenceau	R6	3,000
Narbonne	Hotel des Postes, Blvd Gambetta	R6	———
Nice (2 auto exchgs)			
(1) Central	Hotel des Postes, ave Thiers & rue Gounod	R6	7,000
		R6	———
(2) Fabron	———	R6	2,000
Nimes	———		
Perpignan	Hotel des Postes in the Quai de Barcelone	R6	———
		R6	———
Roanne	———	R6	6,000
St Etienne	———	R6	———
St Tropez	———		
Toulon	P.T.T. Bldg. rue Guiol (?)	R6	2,400
Toulouse (2 auto exchanges)			
(1) Local automatic	Hotel des Postes, rue des Postes, bertoen rue Remusat and rue Alsace lorraine	R6	———
(2) St. Aubin	PTT Bldg Blvd Riquet & rue des Ecoles	R6	———
Vichy	Place de la Republique	R6	———

d. Trunk Exchanges

City	Location of Exchanges	Size
Beziers	———	40 pos., 300 ckts.
Cannes	———	23 pos., 115 ckts.
Carcassonne	1st floor, Hotel des Postes, rue de la Prefecture	———

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City	Location of Exchanges	Remarks
Lyons	The German's use part of the "Moncey" automatic exchange	———
Marseille	(1) German Hq at Hotel Province, 16 Cours Belsunce	Direct Telephone lines to Berlin & important occupied countries.
	(2) Exchange at 117 Blvd Perier	———
	(3) Chateau at 16 Traversee Pomcues in Romevcine	German naval communications svc supply depot.

Note: The Colbert exchange will probably be destroyed in case of invasion and emergency exchanges have been prepared as follows:
(1) Roucas Blanc in large Bldg near the Vierge de la Garde.
(2) Hotel de L'Ermitage on the Corniche. (3) In the Rochos property at St. Antoine near the RR bridge over RN8.

Martiques	(1) Hotel St. Anne	Wehrmacht Hq
	(2) In Paradis, just outside Martiques	
Millan	PTT Bldg plus small exchanges at Hotel du Midi, Place de la Gare and at L'Hotel Terminus adjoining the station	———
Montelimar	Hotel du Commerce	———
Montfrin	Chateau de Montfrin	60 lines
Montpellier	Basement of the PTT Bldg	———
Narbonne	In cellar behind Grand Hotel, Blvd Gambetta	———
Nimes	(1) Basement of PTT Bldg	———
	(2) Hotel Imperator, rue Gaston Boissier	24 lines
Perpignan	Basement of the Hotel des Postes in the Quai de Barcelone	———
Pont du Gard	1st Floor of L'Hotel Sud	———
Privas	In the Kommandantur	25 lines
St Flour	In the gardens behind the offices of Place Alfred Bert	———
Toulon	German Air Force Hq in the school in the rue Torkin	30 lines
Toulouse	Hotel des Postes, rue des Postes between rue Remusset and rue Alsace Lorraine	Direct lines to Marseille, Beziers, Montpellier, Lezignan, Cahors, Bordeaux and Foix.
Vichy	(1) Hotel Carlton, 26 rue du President Wilson	———
	(2) Hotel Majestic, 6 rue Petit	———
	(3) Hotel Radio, 15 rue Des Nations	———

Note: Since the French Armistice a great many street names seem to have been changed. It cannot be guaranteed that the street names given are always the current ones.

3. Submarine Cables

Submarine cables exist between the points listed below:

a. MENTONE

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City	Location of Exchanges	Size
Clermont-Ferrand	2d floor, Place de Lille	46 pos., 390 ckts.
Limoges	rue Edouard Vaillant	34 pos., 250 ckts.
Lyons	rue Franklin corner of Place Ampere	
Marseille	Hotel des Postes, rue Colbert	56 positions
Montpellier	52 rue de Toulouse, formerly ave. G. Clemenceau	
Nice	Hotel des Postes, ave Thiers & Rue Gounod	
Perpignan	Hotel des Postes in the Quai de Barcelone	
Vichy	Place de la Republique	23 pos., 110 ckts.

e. Manual exchanges

There is no information available as to locations or details of equipment of manual exchanges.

f. German exchanges

The following telephone exchanges in the German military wire system are known to exist:

City	Location of Exchanges	Remarks
Agen	Hotel des Postes, ave Marechal Petain-formerly ave President Carnot	
Annecy	(1) Hotel Splendid	
	(2) Hotel Carlton	
Arles	German Hq between Blvd des Lices & rue Emile Fassin	
Aubagne	1st floor, No. 21 in the square next to the tramway terminus	
Avignon	(1) Hotel Haitens, 81 rue Vernet (main Hq)	
	(2) Hotel d'Angleterre, 29 Blvd Raspail	
	(3) Paul Lyon's Lingerie Shop in the rue du Vieux Sections	
	(4) German Hq, Chateau Blanc.	Serves Aix, Orange & Avignon
Carcassonne	(1) No. 2 rue de Verdun	
	(2) Basement of the Hotel des Postes, rue de la Prefecture	
Frejus	(1) There are 12 telephone lines from the hotel rue Parc to Nice	
	(2) Hotel Azur at the crossing of Frejus-St Maxime roads	Serves Frejus aerodrome & communicates with Berlin
Grasse	In the Maison Bernard, quartier de Roquevignon	
Grenoble	Mil. Swbd in basement of PTT Bldg & an exchange at Caserne de Bonne	
Hyeres	(1) In the Vieux Chateau	
	(2) In cellar of the Bar Palais, 5 Ave Marechal Petain	
La Palisse	Exchange about 100 m. out of the La Palisse on north side of road to Moulins	
Limoges	In the Uni Club corner of Blvd de Fleurus & the rue du 71 erc Mobile	

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(1) Information of location of landing point not available.

(2) One single core cable total length 85.629 nautical miles, to GENOA, Italy.

b. ANTIBES

(1) Landing point, just north of Fort Carre. Landing is marked by two beacons painted with white and blue horizontal bases and surmounted by white discs.

(2) One single core cable, total length 129 nautical miles, runs to S. FLORENT, Corsica.

c. CANNES - ILES DE LERINS

(1) Two cables, one single core and one twin core, run from Pointe de la Croisette (south to Cannes) to ILE SAINTE MARGUERITE where they are landed just east of the Citadel. Beacons of the same type as in (b) above mark the landing points. The twin core cable is probably a telephone cable.

(2) One single core cable runs from the south side of Ile Sainte Marguerite from a point about 300 yards west of the mast in Le Grand Jardin to ILE SAINTE HONORAT where it lands roughly in the center of the north shore. This is probably a telephone cable.

d. HYERES

(1) One single core cable runs from Cap Benat at the eastern side of Rade d'Hyeres to ILE DU LEVANT where it is landed at Cap Laisset.

(2) One single core cable runs from Cap Benat to ILE DE PORT CROS where it lands near Pointe de la Galere.

(3) Three single core cables run from Points de la Tour Fondu on the south coast of Presquile de Giens at the western side of Rade d'Hyeres to ILE DE PORQUEROLLES just east of Pointe Sainte Anne. One of these is probably a telephone cable.

e. TOULON

(1) One single core cable runs from Sablettes Bay (S. of the Lazaretto of Toulon) to Ajaccio in Corsica. The landing in Sablettes Bay is marked by beacons on a bearing 024°.

(2) This cable reported cut in August 1943.

f. MARSEILLE

(1) The British cables are landed on Bonneveine beach approximately 500 yds s. of the mouth of L'Huveaune river. There is no hut on the beach as the cables are there connected to twin core cables which cross the road and run across the race course and Parc Borelli to the cable house at the N.W. corner of the Parc backing on to the river.

The following cables land here:

(a) One single core to Barcelona. Recently reported broken.

(b) Two single core cables to Bone. Both cut.

Note: The engineer at the station reports that in addition to being cut at sea these three cables have been cut at the cable house and sealed off.

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(2) The French cables are landed at a point about 700 yds. north of the mouth of L'Huveaune river near the swimming pool on Plage du Prado. They consist of the following lines:

(a) Two single core cables to Oran.

(b) Three single core cables to Algiers. All three have been cut and African ends used to complete other Mediterranean links with Gibraltar and Malta.

(c) One single core cable to Stora (Philippeville).

(d) Three single core cables to Bizerta.

(3) (a) Two single core cables run from Anse Malmousque on the northern side of Pointe Endoume to Ile de Ratonneau where they are landed at Calanque de Ratonneau.

(b) Two single core cables also run from Anse des Auffes just NE of Anse Malmousque to the same spot on Ile de Ratonneau.

(c) One single core cable runs from Pointe Endoume to Carry, a village about 4 ½ miles E. of Cap Couronne.

(4) The following telephone cables probably exist also:
(a) Two cables from Pointe Endoume, one to Ile Chateau D'If and thence to Ile de Ratonneau the other to Ile de Pomegues where it lands SW of Pointe Courille.

(b) One cable from Anse des Catalans to Ile de Pomegues where it lands on the South shore of Port du Frioul.

NOTE ON THE MARSEILLE CABLES:

U. G. cables connect the cable hut, Roucasblanc, with the Central Telegraph Office, Colbert, where there are the following installations:

11 Baudot Multiplex
6 Baudot duplex voice frequency

Accumulator batteries type Hydra WMI are in a room adjoining that in which the Baudot installations are kept. There are 24 of these batteries: 12 50v. and 12 40v. The capacity of each accumulator battery is 30 AH over a discharge period of 1000 hours.

4. UNDERGROUND CABLES

(a) Local cables (subscribers lines) containing 1, 7, 14, 28, 56, 112, 224, 448, and 900 pairs are in use. Star quads are sometimes used in these networks

(b) Distribution cables over 3 km. long may be loaded. In cables 3 to 8 kms. the loading is continuous. When they are over 8 km. loading coils are used. Distribution cables carrying earth return telegraph circuits are always separate from those carrying the telephone circuits.

(c) Long Distance Cables.

(1) These cables are normally quad cables, coil loaded. They are in general, bound with tape armoring covered with 2 layers of impregnated jute and sprayed with tar. Where cable is pulled through conduit, wire armoring is used without the jute.

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(2) Cables are always laid at the side of roads, buried to a depth of about 80 cm. and loading points and joints indicated by marking stones placed over them. Known cables are listed below:

ANGOULEME - LIMOGES — 61 quads
Repeater stations at Angouleme and Limoges.

BORDEAUX - TOULOUSE — 71 quads
Repeater stations at Toulouse and Agen.
There is a derivation from this cable to Montauband. (Where there is a repeater station). This derivation consists of 19 quads.

TOULOUSE - DAX
Section Toulouse - Cazeres — 72 quads
Section Cazeres - Pau — 26 quads
Repeater stations at Toulouse, Cazeres, and Montrejeau.
There is a derivation from Montrejeau to Bagneres de Luchon, details as follows:

Section Montrejeau to Loures — 28 quads
Section Loures to Cierp — 14 quads
Section Cierp to Cazeaux — 19 quads
Section Cazeaux to Bagneres de Luchon — 28 quads
Branch cable from Cierp to Marignac (St Beat) — 7 quads

PARIS - LYONS No. 1 — 111 quads
Repeater station at Lyons

PARIS - LYONS No. 2 — 153 quads
Repeater stations at Lyons, St. Sympherien and La Pallisse

LYONS - MARSEILLE No. 1 — 91 quads
Repeater stations at Lyons, Valence, Le Pontet and Marseille.
A cable of 71 quads links Le Pontet with Avignon.
There are other derivations to the following places enroute: Vienne, St Vallier, Tain L'Ermitage, Loriol, Montelimar, Pierrelate, Orange, Noves, Orgon and Salon de Provence. These are probably 7 quad cable not loaded.

LYONS - MARSEILLE No. 2
Section Lyons - Le Pontet — 89 quads
Section Le Pontet - Aix-en-Provence — 73 quads
Section Aix-en-Provence - Marseille — 89 quads
Repeater stations at Lyon, Roussillon, Valence, Donzeres, Le Pontet, Lambese and Marseille.
There are derivations from the above cable to Vienne, S. Vallier, Tain, Lorcol, Montelimar, Orange, Cavaillon, and Luynes. These are probably 7 quad cables not loaded.

LE PONTET - PERPIGNON
Section Le Pontet - Montpellier — 89 quads
Section Montpellier - Narbonne — 89 quads
Section Narbonne - Perpignan — 72 quads
Repeater stations at Le Pontet, Montpellier, Narbonne, and Perpignan.
There are the following derivations from this cable:
Nimes — 40 quads
Lunel — 12 quads
Sete — 30 quads
Beziers — 48 quads
Nissan — 3 quads
Coursan — 2 quads

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TOULOUSE - NARBONNE
Section Toulouse - Carcassonne 73 quads
Section Carcassonne - Narbonne 73 quads
Repeater stations at Toulouse, Carcassonne and Narbonne.
There are the following derivations from the cable:

Gardouch	3 quads
Castelnaudary	12 quads
Marseillette	2 quads
Castelnau	4 quads
Argens	4 quads

LYONS - ST ETIENNE No. 1 19 quads

Derivation to:

Givors	12 quads
St Chamons	7 quads

LYONS - ST ETIENNE No. 2 41 quads

MARSEILLE - VENTIMIGLIA
Section Marseille - Cannes 75 quads
Section Cannes - Nice 91 quads
Section NICE - MONACO 75 quads
Section MONACO - VENTIMIGLIA 48 quads

Repeater stations at Marseille, Toulon, Vidaubon and Cannes.
Derivations to:

Frejus	27 quads
St Raphael	12 quads
Antibes	27 quads
Cognes	12 quads
Cap d'Ail	12 quads
Beausoleil	12 quads
Roquebrune	12 quads

LYON - CHAMBERY - MODANE
Section Lyon - Les Abrets 128 quads
Section Les Abrets - Chambery 128 quads
Section Chambery - Modane 48 quads
Repeater stations at Lyon, Les Abrets, Aiguebelle and Modane.
This cable continues on to Turin, Derivation from Les Abretes-Grenoble - 48 quads

CHAMBERY - GENEVE
Section Chambery - Annecy 91 quads
Section Annecy - Annemasse 91 quads
Section Annemasse - Geneve 48 quads
Repeater station at Annecy
Derivations at Aix-les-Bains and La Roche sur Foron - 7 quads each not loaded.

LA ROCHE sur FORON - CHAMONIX
Section La Roche sur Foron Bonneville 48 quads
Section Bonneville - Sallanches 37 quads
Section Sallanches - Chamonix 19 quads
Repeater station at Cluses
Derivation from Sallanches to Megeve 19 quads

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LA PALISSE - CLERMONT FERRAND

Section La Pallisse - Vichy	89 quads
Section Vichy - Riom	73 quads
Section Riom - Clermont Ferrand	89 quads

Repeater stations at La Palisse and Clermont Ferrand

CLERMONT - FERRAND - LIMOGES

Section Clermont Ferrand - Laqueville	56 quads
Section Laqueville - Ussel	43 quads
Section Ussel - Limoges	43 quads

Repeater stations at Clermont Ferrand, Ussel and Limoges.

Derivations:

Mont Dora	19 quads
La Bourboule	7 quads

Complete technical data on all cables is available in Section C, Part I, M. I. 8/A/44/19.

5. REPEATER STATIONS

(a) Repeater stations are situated 60 to 120 km apart along the cable routes. The repeater stations in Cap and Toulon are in the General Post Office and old general post office respectively and those in Lyons and Limoges in the telephone exchanges. All other repeater stations in the area are in separate buildings which are all of an easily recognizable type. They are rectangular, measuring about 24 x 13 m. and consist of a ground floor and first floor.

(b) In general, the Repeater equipment is of French manufacture. The technical data of all French repeater equipment is available in M. I. 8/A/44/19.

(c) Power

(1) Power is taken from the mains and is 115/200 volts, 3 phase 50 cycles. It is usually on high tension supply with a transformer near the repeater station. The converter is in the engine room of the station and provides the necessary direct current - generally 220 and 24 volts, sometimes 230 or 130 and 12 volts.

(2) There are accumulators so that the machines can stop either partially or altogether at night. The accumulators will keep the stations going for about 12 hours, if the mains fail. After that the emergency power plant which supplies a current similar to that of the mains supply would have to be used.

(d) The following is a list of the known repeater stations:

NAME OF STATION	ADDRESS
AGEN (Lot et Garronne)	65 Blvd Scaliger
AIGUEBELLE (Savoie)	In the Grande Rue
ANNECY (Haute Savoie)	7 Avenue de Geneve
CANNES (Alpes Maritimes)	27 Boulevard de la Source
CARCASSONNE (Aude)	Route de Toulouse
CAZERES (Haute Garonne)	Route de Polaminy
CLERMONT - FERRAND (Puy de Dome)	2 rue Cuvier (corner of Place des Bughes)
CLUSES (Haute Savoie)	Rue de Pont Neuf
DONZERE (Drome)	Route Nationale No. 541
GAP (Hautes Alpes)	Hotel des P.T.T. (1st floor rue Carnot)
LAMBESC (Bouches du Rhone)	Route Nationale, quartier St Roch

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NAME OF STATION	ADDRESS
LA PALISSE (Allier)	Route Nationale (en direction Vichy)
LA SOUTERRAINE (CREUSE)	Place called "L'Affut"
LE PONTET (Vaucluse)	Route Nationale, near the Marseilles-Lyon railway level crossing.
LES ABRETS (Isere)	Route de Lyon
LIMOGES (Haute Vienne)	Telephone exchange, 1st floor in rue Edouard Vaillant
LYONS (Rhone)	Telephone exchange, ground floor, 19 rue Franklin
MARSEILLE (Bouches de Rhone)	12 Boulevard de la Paix
MODANE (Savoie)	5 Rue Jules Ferry
MONTPELLIER (Herault)	46 Rue de Toulouse
MONTREJEAU (Haute Garonne)	Route de Toulouse
NARBONNE (Aude)	Avenue Anatole France
PERIGNAN (Pyrennes Orientales)	2 Rue Henri Bataille
TASSIN (Rhone)	118 Rue Victor Hugo
TOULON (Var)	Rue Hippolyte Duprat and corner of Rue Pastourear (old hotel des PTT, 1st floor)
TOULOUSE (Haute Garonne)	8 Boulevard Riquet
USSEL (Correze)	Avenue Carnot
VALENCE (Drome)	103 Avenue Maurice Faure
VIDAUBAN (Var)	Route Nationale

6. Aerial Cable

There are no known aerial cables.

7. Overhead Wire

(a) Wire lines in general follow standard French construction practices. Detailed and technical information regarding construction is shown in SOP and in MI 8/A/44/19.

(b) Overhead lines follow the railroads where practical, otherwise along main roads. PTT lines are built on one side of railway tracks while railway control and dispatch circuits are built on the other side.

(c) Local distribution circuits in urban areas are often overhead wire, with supporting structures attached to buildings. These circuits are not transposed and a pair is formed from two horizontal wires rather than the diagonal wires of a group as is the case in trunk lines.

(d) Overhead telegraph wires are on the same poles as telephone lines. Telegraph wires are placed on the outside pin positions, that is, on the side away from the rails or the road.

8. Railroad Lines

a. Railroad circuits are always located on the opposite side of the tracks from the PTT routes.

b. Telephone communications on the railways, which are mostly electrified is good. Generating, distribution and sub-stations have ordinary telephone communication between each other. It is understood that there is a high frequency telephony system in use between generating and distribution stations.

c. Ordinary Morse telegraph instruments are in use but in recent years teleprinters have been replacing the older Morse instruments.

9. Carrier Equipment

Carrier telephony is used for areas with heavy traffic. The following details are the only ones available:

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Marseilles - Nice

4 circuits between Marseilles and Nice were equipped with carrier telephony.

Circuits 1 and 2
Route: Via Toulon, les Arcs, St Raphael.
Wires: 3mm.
Armament: 30-40 cm.
U. G. Section: At Marseilles, 5.1 km in conductors of 1.5 mm. at Nice, 2km in conductors of 2.5 mm.
Equipment Installed: At Marseilles the equipment was installed in repeater station in the Blvd de la Prix. From there the circuits were prolonged in O. H. lines to the St Charles junction box, leaving only 600 m. of U. G. cable between carrier installations and junction box.
Number of channels: 4 on each circuit.
Nature of Equipment: Simplified system (called D) for using no terminal repeaters.
Carrier frequency: 10, 300 cps in each direction.
Power supply: accumulator batteries - at Marseilles the repeater station batteries were used.

Circuits 3 and 4
Route: Via Gardonne, Carnoules, les Arcs, Draguignan, Grasse.
Wires: 3 or 2 mm.
Armament: 20, 25, 30, or 40 cm.
U. G. Section: At Marseilles, 3.85 km, in conductors of 1.5 mm. At Nice as for Circuits 1 and 2.

Note: It is probable that these circuits are now carried in the cable Marseilles - Menton. As this is not known certainly, the foregoing details have been given.

AVIGNON-NARBONNE

A three channel system on 208 Km of 3 mm copper wire. In the direction A-B the 3 bands of transmitted frequency are between 5100 and 13900 cps. In the direction B-A there are between 16200 and 26000 cps.

Note: It is probable that this circuit also is now in the cable

Other Known Carrier Circuits

Aurillac - Clermont - Ferrand	1 (possibly 3) channels OH route
Aurillac - Limoges	2 channel (1 via Ussel, 1 via Souillac) OH route
Aurillac - Murat	1 channel OH route
Aurillac - Riom	2 channel OH route
Aurillac - Toulouse	1 channel OH route
Briancon - Grenoble	1 channel OH route
Clermont Ferrand - Gueret	1 channel OH route
Clermont Ferrand - Lyons	1 channel OH route
Clermont Ferrand - Montlucon	6 channel OH route
Clermont Ferrand - Rodez	1 channel OH route
Clermont Ferrand - St Gervais	1 channel OH route
Clermont Ferrand - Thiers	2 channels OH route
Clermont Ferrand - Vichy	6 channel OH route via Thiers
Clermont Ferrand - Vichy	1 channel OH route via Riom
Digne - Marseilles	1 channel
Gap - Grenoble	3 channel

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Other Known Carrier Circuits

Montpellier - Rodez	2 channels
Rodez - Toulouse	2 channels
St. Flour - Brioude	1 channel OH route
St. Flour - Murat	1 channel OH route
St. Flour - St Chely	1 channel OH route
Toulouse - Mazamet	1 channel OH route
Vichy - Riom	2 channels OH route

10. Power Supply

a. Power supply in FRANCE is quite varied and voltages are not standardized. Two of these are generally available in every town: a lower one for lighting, and a higher one for power. Most of the power is generated as three-phase 50-cycle alternating current however, southeastern FRANCE still uses 25 cycle AC. In some towns direct current is used. See Appendix D for detailed description of power supply.

b. Telephone carrier circuits have been developed on high voltages power transmission lines, Carriers are between 50 and 150 KC; the output is between 5 and 15 watts. The Givers-Monistrol-Eguzon line and extensions north and northwest are 220 KV; the lines along the Bay of Biscay and in the South and southwest, between 50 and 150 KV. The most important manufacturer of high voltage line equipment has been Thomson-Houston (since renamed Campagnie Generale de Constructions Telephoniques).

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INCLOSURE NO. 4 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

LOCAL POWER SUPPLY IN SOUTHERN FRANCE

1. Hydro-electric resources:

a. About 90% of the hydro-electric plants in FRANCE is located south of a line extending roughly from La Rochelle to Geneva. These plants are linked to the thermal plants in the north by a high tension grid system of 150 and 220 kv.

b. The hydro-electric plants in the south are concentrated in three areas:

(1) Alps: The Alps system is glacier fed and experiences a marked shortage of water in the winter. Minimum capacity during the "dry" season is less than 50% of maximum capacity. Its minimum load is carried in February, its maximum load during May through July.

(2) The Massif central: Experiences its low water period during the summer; the capacity in August is only about 20% of capacity in March.

(3) The Pyrenees: Share the characteristics both of the Alps and the Massif central. Peak capacity is obtained in June, with minor peaks in October and December; the lowest period occurs in January and February when capacity is about 40% of the peak, followed by another low period in August and September. Large reservoirs store water for use by hydro stations during the dry periods, but due to the limited amount of storage capacity, the plants in most areas are run on light load during the dry period. Heavy consuming centers are therefore linked to more than one generating area, e.g., Lyn-St Etienne receives power from both the Alps and the Massif central. In general however, the dry season of one is compensated by the wet season of another.

2. a. In 1941 total French electric power output amounted to 18,000 million kwh, of which 11,500 million kwh was hydro-generated. The poorest district as far as power is concerned is the Mediterranean area between Marseille and Nice (25 cycle current rather than the prevailing 50 cycle current) where the number of generating stations is small and the district is isolated from the rest of the French network.

b. All the important hydro stations except Kembs on the Rhine (installed capacity 115,000 kw) and Eguzon on the Creuse (installed capacity 64,000 kw) are located in southern FRANCE. In addition there are many hydro plants of under 5,000 kw capacity which form an additional source of supply for local needs.

3. Sub-stations:

a. These are especially important in a country like FRANCE, where power is often consumed far from the point of origin; their importance has been accentuated since the collapse of FRANCE because of the lack of imported coal and the steady fall in French coal production has meant increasing dependence on hydro supplies.

4. Peculiarities of the southern FRANCE network:

a. The west coast is supplied by the 150 kv line running up the western seaboard, carrying Pyrenees power transmitted through Jurancon and Lannemozan.

b. The 25 cycle line Lingostiere-Bancairon-Ste Tulle-Gavotte, serving the south east corner of FRANCE, appears to be no longer isolated from the rest of the French grid, but can receive power from the Massif central.

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c. Conversion from 50 cycles to 25 cycles probably takes place either at the transformer station of Septemes, just north of Cape Pinede generating plant, or at the substation adjoining the old Arenc steam plant. Septemes is equipped with 150/35 kv transformers. It is fed by a 150 kv line from the Massif central (Monistrol) and one of the same voltage from the Pyrenees (St. Victor) which meet at Venejan (Bagnolsur-Ceze). From here a line at 150 kv runs southeast to Septemes. An underground cable 10 km long between Septemes and Arenc completes the connection to the 25 cycle line, Lingostiere-Bancairon-Tulle-Gavotte.

d. The Germans have been experimenting with 580 kv and it is possible that some lines may have this voltage.

5. Local electricity:

a. Southern FRANCE is almost completely electrified. Almost all French electricity is generated as three-phase, 50-cycle, alternating current, which is practically universal for house to house supplies. Southeastern FRANCE, which is roughly the area served by the line Gavotte-Sainte-Tulle-Bancairon-Lingostiere, still uses 25-cycle AC. In some towns, direct current obtained from alternating current by use of mercury-arc rectifiers, is used; other localities use both AC and DC. Voltages are not standardized, two of these are generally available in every town, a lower one for lighting and a higher one for power. Industrial enterprises purchasing bulk power ordinarily use high voltages such as 5,000 and above. Transforming or rectifying, if either is necessary, is carried on within the factory area with factory owned equipment.

b. In spite of new construction, all FRANCE is suffering from a power shortage, due to drought conditions. The Ministry of production has issued stringent new measures for conservation of power.

6. Important substations:

BAY OF BISCAY

Name:	Type:
Pessac	Open air transforming and switching.
Dax	Same.

SPANISH BORDER

Jurancon	Switching.
Lanemezan	Open air transformer.

REST OF SOUTHERN FRANCE

Rueyyes	Switching.
St Victor	Transformer.
Mareges (la Mole)	Same.
Fleac	Same.
Eguzon	Open air transformer.
Bagnols-sur-Ceze	Transformer.
Venejan	
Portet-St Simon	Transformer.
Monistrol D'Allier	Transformer.
Venissieux	Transformer.
La Riviere	Transformer.

7. Power stations, southern FRANCE:

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BAY OF BISCAY

Name:	Type:	Capacity kw
Bacalon	Thermal	19,200
Floirac	"	52,000
Hostens	"	25,000

SPANISH BORDER

Name:	Type:	Capacity kw:
Auzat	Hydro	19,000
Lacourt	"	5,400
Mercus	"	5,700
Orlu	"	12,250
Sabart	"	25,200
Artouste	"	19,200
Baralet	"	8,400
Centrale Thermique de L'Adour	"	20,000
Hourat	"	32,000
Licq Atherey	"	8,250
Miegebat	"	32,000
Eygun-Lescun	"	21,200
Camon	"	16,800
Eylie	"	27,000
La Gentille	"	5,000
Luchon (Lac Dc)	"	26,800
Pique-Inferieure	"	6,400
Pique-Superieure	"	8,800
Pointis de Riviere	"	7,100
Saint Sernin	"	5,000
Valentine	"	9,600
Beyrede	"	9,000
Borderes	"	6,400
Eget	"	24,500
Esterre	"	14,400
Lasscula	"	10,800
Lau-Balagnas	"	16,000
Loudenvielle	"	9,000
Luz	"	26,400
Saint-Lary	"	15,200
Soulom	"	14,500
Tramezaygues	"	15,600

MEDITERRANEAN COAST POWER STATIONS

Le Banacairon	Hydro	44,000
Breil	"	8,800
Fontan	"	7,000
Lingostiere	Thermal	60,000
Saint-Cezaire	Hydro	8,400
Esculcubre	"	9,500
Gesse	"	5,600
Pont-Neuf	Thermal	6,200
Arenc	"	6,200
Cap Pinede	"	91,500
La Grand' Combe	"	35,000
Molieres	"	10,000
Rochebelle	"	15,000
Le Bousquet D'Orb	"	12,000

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MEDITERRANEAN COAST POWER STATIONS

Name:	Type:	Capacity kw:
Missiessy	Thermal	8,000
La Loubiere	"	10,000

POWER STATIONS FOR THE REST OF S. FRANCE

Chancy-Pougny	Hydro	28,000
Cize-Bolozon	"	20,400
Coupy	"	10,000
Eloise	"	8,200
Le Teil	Thermal	6,400
La Farge	"	5,200
Brommat	Hydro	165,000
Lacaze	Thermal	9,000
La Jourdanie	Hydro	7,800
Pinet	"	40,000
Sarrana	"	102,000
Truel	"	5,000
Viviez	Thermal	5,500
La Brillanne	Hydro	10,800
La Largue	"	7,200
Le Poet	"	21,800
Sainte Tulle	Thermal	96,000
Sainte Tulle	Hydro	40,000
Ventavon	"	30,000
Coindre	"	24,000
La Mativie	"	29,000
L'Hopital (Ydes)	Thermal	8,000
Mareges	Hydro	132,000
Bar	"	5,000
Lavel de Cere	"	29,000
Saillant	"	7,500
Val Beneyte	"	29,000
Eguzon	"	64,000
La Roche-au-Moine	"	9,000
Chatelus-le-Marcheix	"	8,000
La Chatre	"	6,600
Saint-Marc	"	11,400
Mauzac	"	8,000
Luiliere	"	12,600
Tuiliere	Thermal	22,400
Bas-Bouvantes	Hydro	12,000
Beaument-Monteux	"	36,000
Bournillon	"	12,200
Pizancon	"	40,000
Champcella	"	6,400
L'Argentire	"	26,400
Les Claux	"	9,200
Pont Haut	"	5,250
St Maurice	"	8,000
Monstrol d'Allier	"	17,000
Moulas	"	14,400
Bioge	"	9,100
Chavaroche	"	7,500
Chedde	"	11,200
Le Fayet	"	10,400
Le Giffre	"	7,200
Motz-val-de-fier	"	16,000
Vallieres	"	14,400

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Name:	Type:	Capacity kw:
Limoges	Thermal	17,600
Avignonet	Hydro	5,000
Bonne Inferieure	"	5,000
Bout-du-Monde	"	5,500
Champ-eur-Drac	"	6,400
Drac-Romanche	"	11,200
Gavet	"	5,400
LacMort	"	7,600
LeRivier	"	9,000
Les Roberts	"	10,400
Le Verney	"	12,500
Le Villaret	Thermal	6,800
Livet	Hydro	12,600
Pierre Ebesse	"	7,900
Riouperoux	"	33,500
Rondeau	"	8,000
Saint-Guillerme	"	14,400
Sautet	"	67,500
Mably (L'Arsenal)	Thermal	16,200
Montaud	"	18,400
Montrambert	"	11,600
St Etienne	"	25,000
St Louis	"	11,200
St Thomas	"	34,000
La Vergne	Hydro	8,000
St Chely D'Apcher	"	12,000
Coudes	Thermal	22,500
La Combelle	"	5,000
Les Fades	Hydro	8,400
Queuille	"	5,800
Cusset-Jonage	"	23,200
Cusset-Villeurbanne	Thermal	56,000
La Mouche	"	82,000
Lyon (Municipal)	"	5,300
Quillins	"	24,000
Avrieux	Hydro	11,200
Beaufort	"	20,000
Belleville	"	16,000
Bissorte	"	78,000
Bozel	"	6,400
Calypso	"	12,600
Hauteluce	"	8,000
La Perriere	"	16,800
La Praz	"	12,200
Le Chatelard St Martin	"	9,000
Le Rageat	"	10,000
La Saussaz	"	14,000
Montricher	"	11,000
Moutiers	"	5,300
Pontanofrey	"	9,800
Premont	"	12,400
Queige	"	6,100
St Beron	"	6,400
St Jean-de-Maurienne	"	13,000
Sainte Marie de Cuines	"	7,300
Ugine	"	6,000
Venthon	"	5,600
Viclaire	"	37,000
Villard	"	7,200
Villard du Planay	"	11,000
Luzieres	"	12,400

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Name:	Type:	Capacity kw:
Pelissier	Thermal	5,200
Pre-Grand	"	20,000
Thuries	Hydro	5,000
Vintrou	"	45,000
Arrens	"	Unknown
Artigues	"	18,000
Champ-sur-Drac	"	Unknown
Chavanon	"	45,000
Cordeac	"	Unknown
Genissiat	"	416,000
L'Aigle	"	200,000
LaChaudanne	"	26,800
Portillon	"	40,000
Pradieres	"	Unknown
St Etienne Cantalis	"	55,000
St Etienne de Tinee	"	Unknown
St Pierre-sur-Drac	"	Unknown
Sept Laux	"	Unknown

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INCLOSURE NO. 5 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

RADIO PLAN

1. General

a. Radio communications will be established in accordance with attached diagrams:

(1) Radio channels (ANVIL) Effective H-Hour D-Day.

(2) Radio channels (ANVIL) Effective D + 3.

2. Radio Communications Afloat

a. Radio silence will be maintained on all sets in all ships up to "H" hour. Silence may be broken in an emergency prior to "H" hour on orders of the Senior Naval Officer. All ships radio sets operating on army or joint shore party nets, except those listening on certain prearranged schedules will open a listening watch prior to H-2, but not before H-5, on orders of the Force, Corps or Division Signal Officer concerned.

b. Radio communication within assault sub-task forces will conform to amphibious doctrines developed at Invasion Training Centers in this theater. It is the responsibility of the Division Signal Officer to coordinate signal activities of all units within the Sub-Task Force and with the corresponding Naval Sub-Task Force communication officer.

c. Seventh Army communication aboard the U.S.S. CATOCTIN will be operated by a detachment of two officers and twenty men from the 1st Signal Battalion.

d. Seventh Army communication aboard the U.S.S. HENRICO will be operated by a detachment of two officers and forty-seven men from the 1st Signal Battalion.

e. VI Corps communications aboard the U.S.S. CATOCTIN will be operated by a detachment of one officer and twelve men from the 57th Signal Battalion, reinforced by the ship's permanent Army Signal Personnel.

f. Army Air Support Net A-19 will be operated by a detachment of three officers and twelve men from the 2nd Tactical Air Communications Squadron. This net opens when VI Corps moves ashore.

g. The 2677th Regiment, OSS (Prov) will provide three operators aboard the Alternate Army Headquarters Ship to monitor the Special Broadcast from OSS and SOE, Algiers.

h. Four French radio operators will be attached from II French Corps to the 1st Signal Battalion to assist in operation on net A-16.

3. Radio Communication Ashore.

a. Existing fixed radio installations will be seized and secured but not used or damaged by tactical army units. Location of such stations will be reported to the Signal Officer, Seventh Army. Initial allocation will be made to Naval, Air or PWB use by the Commanding General, Seventh Army. Final disposition of such facilities of all major installations rests with SAC/MTO.

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c. One (1) Radio Set, SCR-299, and team of 982nd Signal Service Co, will be attached to 163rd Signal Photo Co, prior to the launching of Operation "ANVIL" for the purpose of transmitting Signal Corps radiophotos to AFHQ.

d. The radio company of the 1st Signal Battalion reinforced by a detachment of the 982nd Signal Company (Radio) will provide initial radio communication ashore for Headquarters Seventh Army.

e. Times of use of frequencies (SOI Item No. 26-3) will be adhered to until contact is made. Thereafter times of frequency change will be at direction of the control stations.

f. Radio stations will be set up in the following order of priority at Army CP ashore:

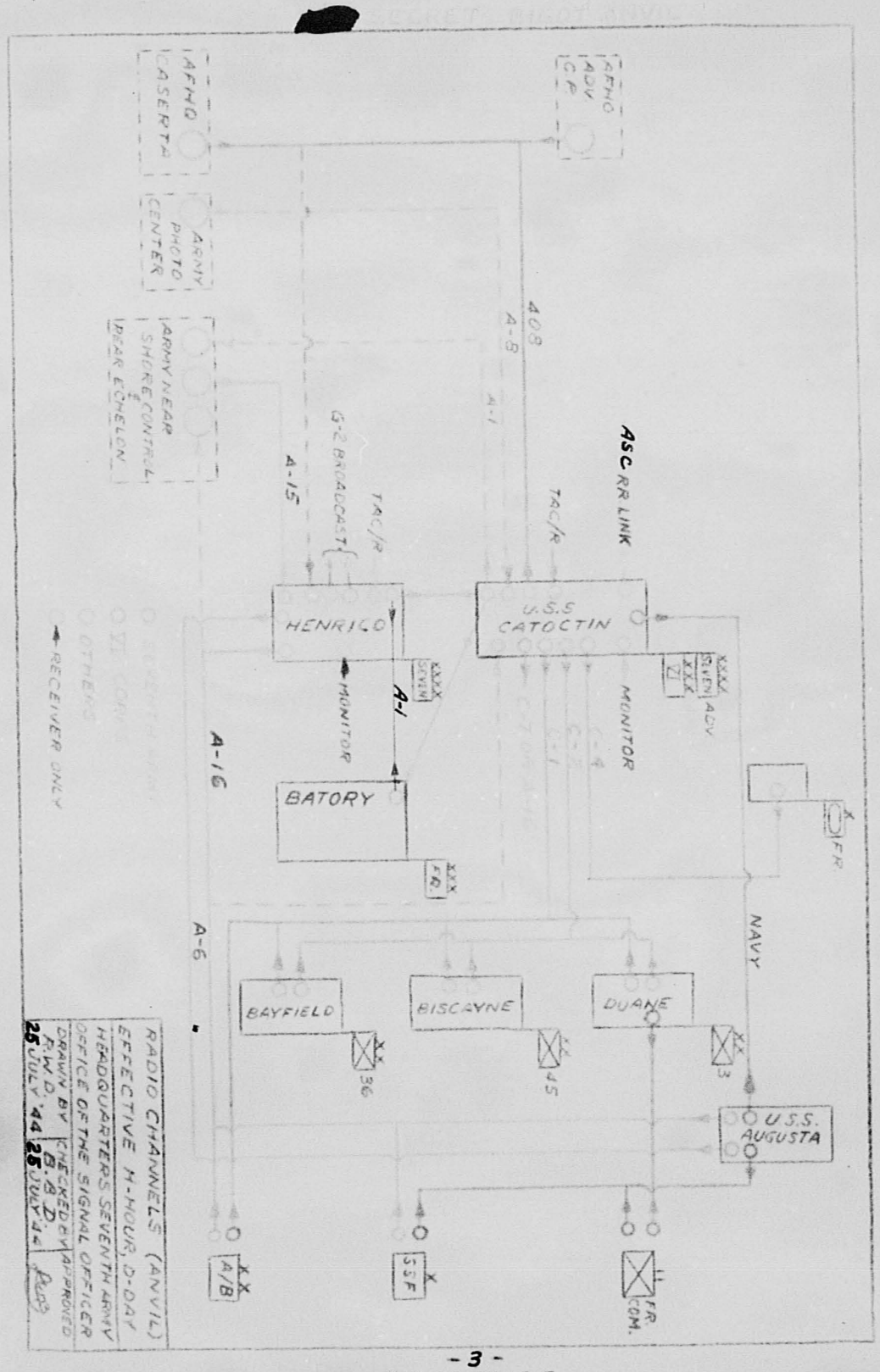
1. Serial A-13
2. Serial A-1
3. Serial 408
4. Serial A-2
5. Serial A-16
6. Serial A-15
7. Serial 411
8. Serial A-6
9. Serial Shaef 6
10. Serial 418
11. Serial Shaef 51
12. Serial Shaef 7
13. Serial A-3

g. Press circuits 412, 413 and 51 will be established as directed by Public Relations Officer, Seventh Army.

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INCLOSURE NO. 5

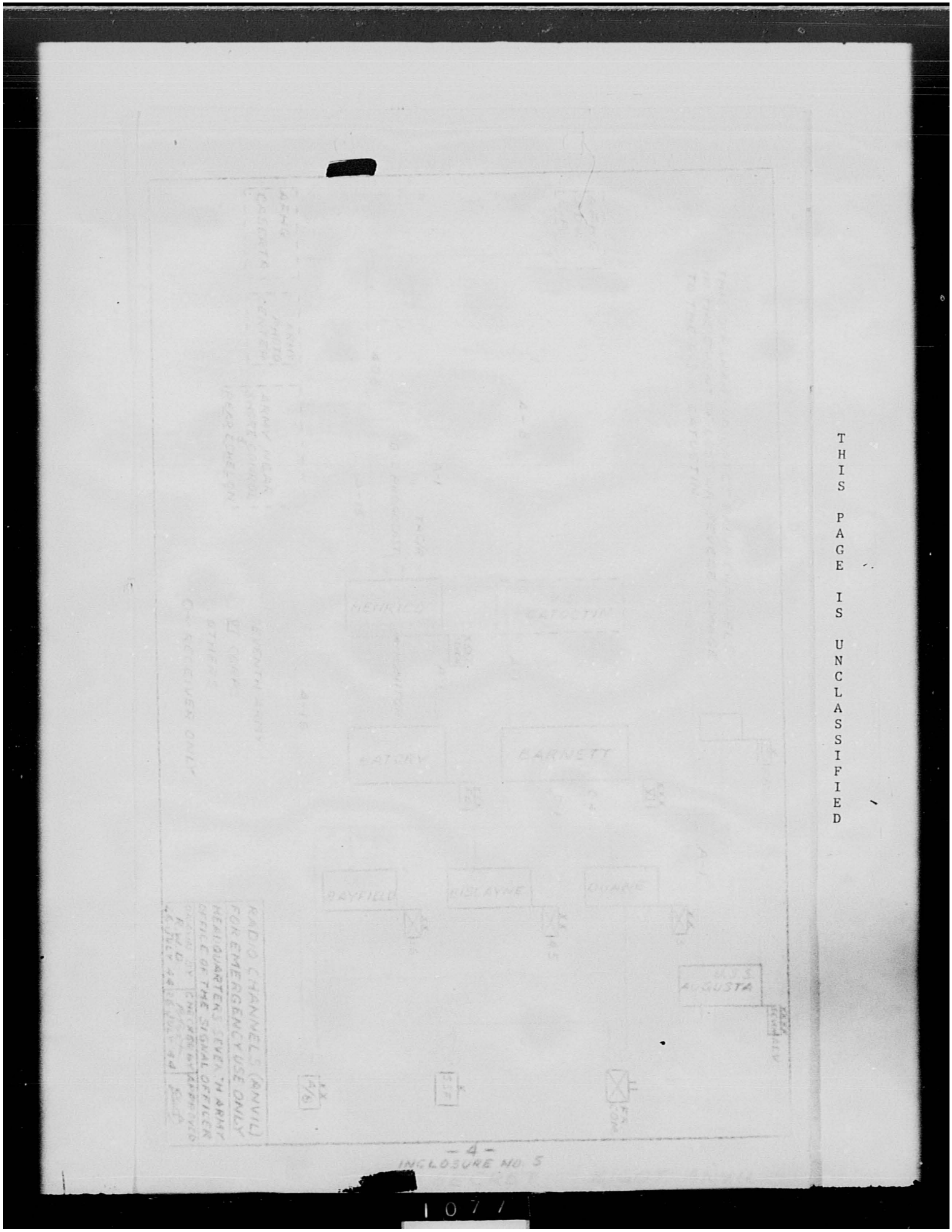
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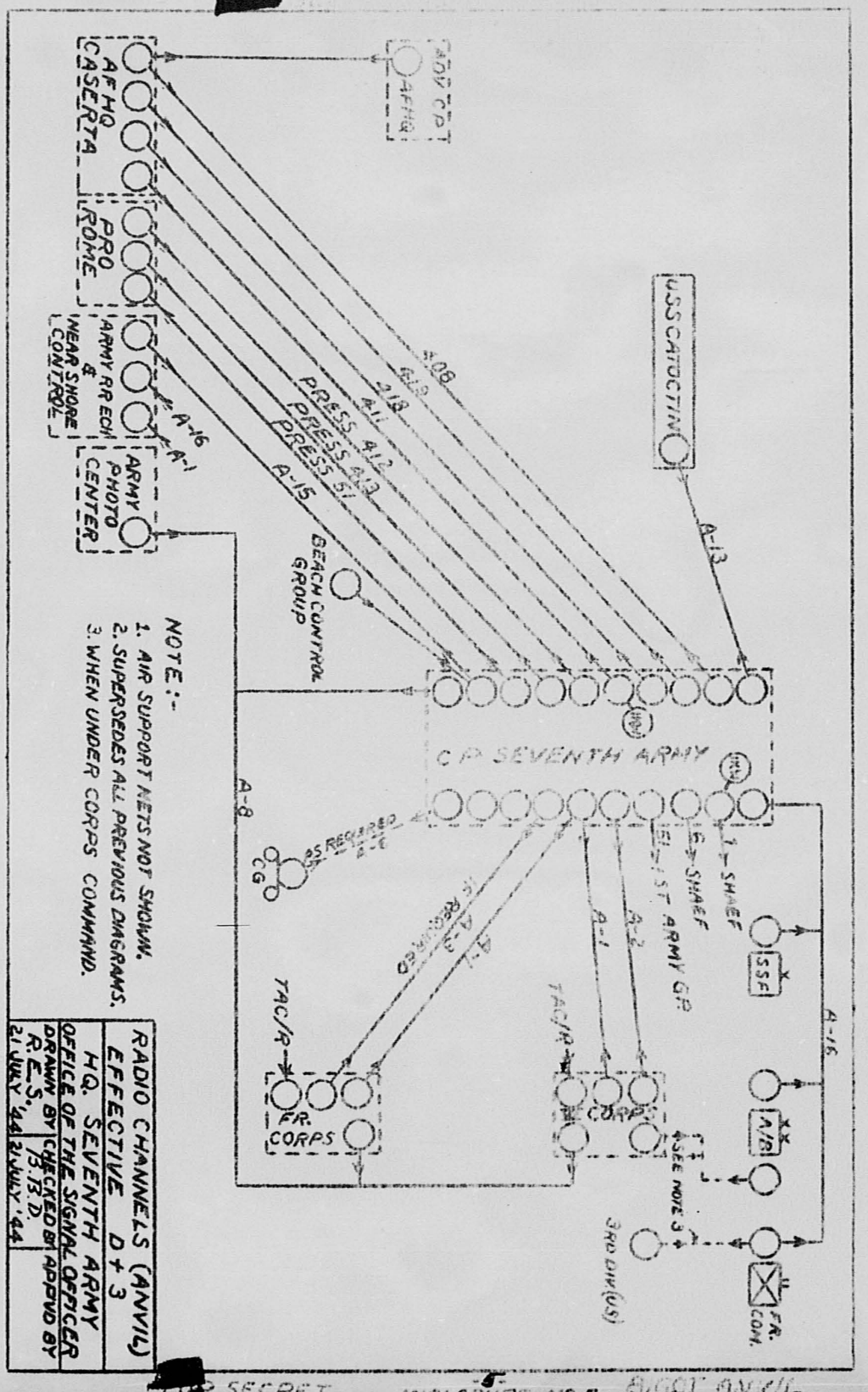


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INCLOSURE NO. 6 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

WIRE PLAN

1. Communications in Italy and Near Shore Control Points will be provided by AFHQ.

2. Tactical Communications

a. Corps and Division commanders are responsible for all tactical wire communications in their own areas. This includes responsibility for all wire communications required for Shore Landing Parties and Shore Beach Parties. They are also responsible for the proper use and conservation of existing wire facilities until such responsibility is taken over by Seventh Army.

b. Seventh Army will establish communication to Corps as soon as possible after getting ashore. Initial communications will be over field wire which will be replaced later with a better type of construction as soon as the material becomes available. Initially two talking circuits and one telegraph circuit will be provided.

c. Full use will be made of existing facilities in the area. Later, as these circuits are no longer needed for tactical use, they will be used in the fixed wire systems.

3. Fixed Wire Communications.

a. Fixed wire communications will be established in accordance with AFHQ wire plan. See diagram attached.

b. The greatest possible use will be made of existing poles and wire in establishing the fixed communication system in order to conserve line materials.

c. Material for use in establishing fixed wire communication will be under control of the Signal Officer, Seventh Army, and except in emergency will not be used for tactical purposes.

4. Interruption of the Commercial Wire Systems.

a. Advance units will be instructed to cut wire lines leading into enemy territory. This includes telephone, telegraph, and railroad dispatch lines. The near end of the enemy portion of such lines will be short-circuited and grounded.

b. Central offices will be secured intact if possible. All troops will be instructed to remove all personnel from the central offices and establish a guard over such installations. Service will be interrupted by cutting off the power supply. Care must be taken not to damage central office equipment. Particular care should be taken to secure all records since this will greatly facilitate the re-establishment of communication. Signal officers of the various units will make plans for taking over central offices as soon as possible after they are captured.

c. Every precaution will be taken to prevent loss to Signal Corps personnel from mines and booby traps while working on any type of enemy communication facilities.

5. Wire Supply

a. Normal supply channels will be used throughout the operation.

b. Units will be issued wire supplies on the basis of T/BA allotments insofar as these supplies are available.

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c. Certain supplies are being received for the special projects involved in the fixed wire communication plan. These supplies will be under control of the Signal Officer, Seventh Army, and will be issued only for the use intended. This equipment consists of the following items:

(1) Permanent line construction materials.

(2) Rapid pole line material.

(3) Carrier telephone equipment.

(4) Repeaters.

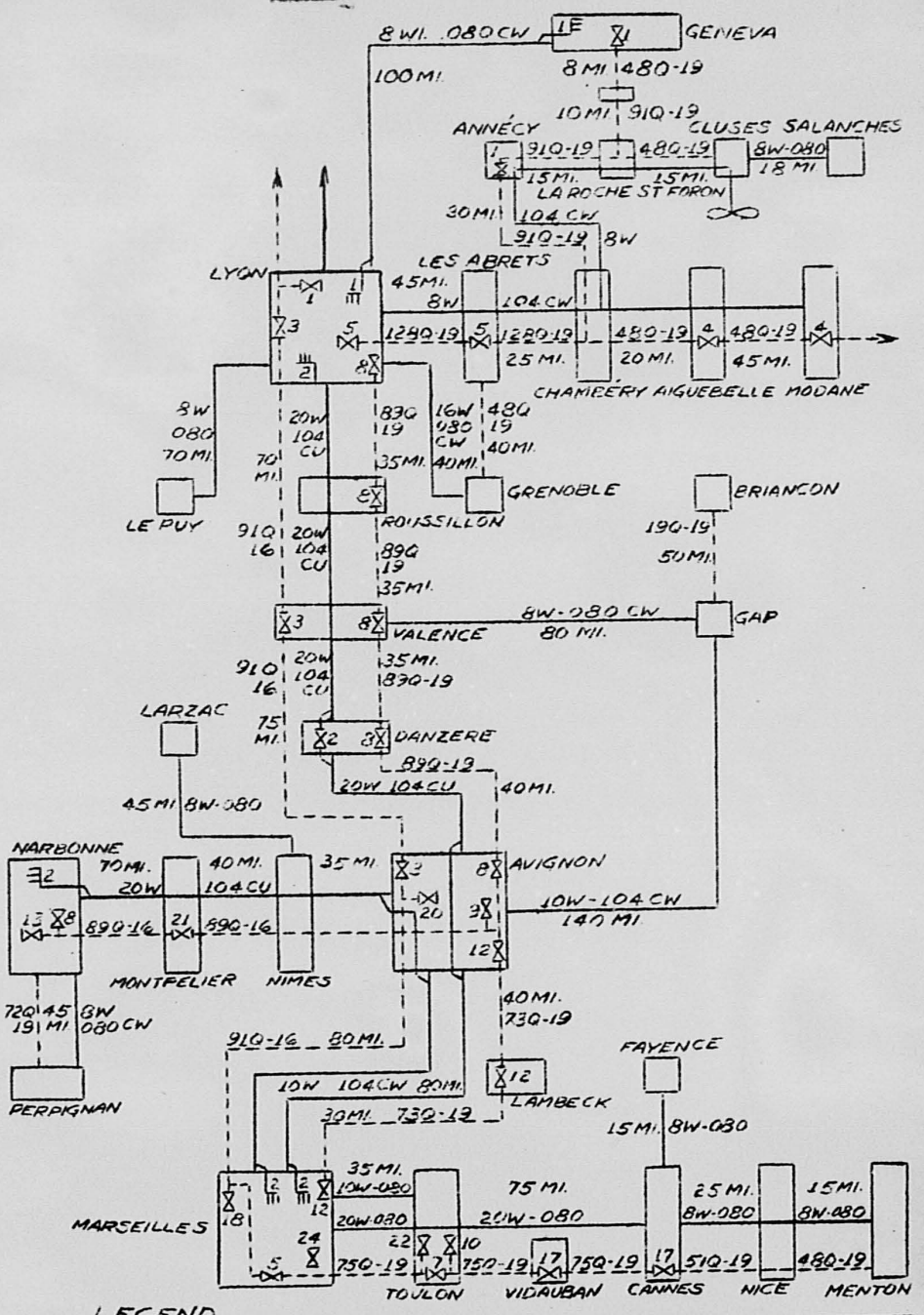
(5) Switchboards.

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TOP SECRET BIGOT-ANVIL



LEGEND

080 CW, 104 CW, 104 CU SIZES OF WIRE
PKG "C" CARRIER TERMINALS WITH QUANTITY
CARRIER BYPASS REPEATER
---- QUADDED TOLL CABLE

H Q. SEVENTH ARMY
OFFICE OF THE SIGNAL OFFICER
FIXED WIRE PLAN
3-29-44

DRAWN BY	CHECKED BY	APPROVED BY
R.W.D	L.H.S.	M.M.G

TOP SECRET BIGOT-ANVIL

-3-

INCLOSURE NO. 6

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INCLOSURE NO. 7 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

CRYPTOGRAPHIC PLAN

1. During the assault all U. S. cryptographic agencies will employ joint or combined systems. Use of joint or combined systems as noted below will be continued until Army headquarters directs the use of normal Army systems at such time as the Army is firmly established ashore.

a. Combined Cipher Machine, using CCBP ϕ131, will be used for enciphering all traffic between U. S. Divisions, between U. S. Divisions and U. S. Corps or French Corps, between U. S. Corps and French Corps, between U. S. or French Corps and Army, and from Army to higher headquarters. Traffic for all U. S. lower units will be cryptographed in the Combined Assault Code, CCBP ϕ13ϕ, edition B-2, or the Joint Hag Key List, SIGSOT. The Combined Assault Code CCBP ϕ13ϕ, edition B-2, will go out of effect at ϕϕϕ1B, D plus 5.

b. Traffic between French Corps and U. S. Army will be through U. S. Liaison Teams, using Combined Cipher Machine and CCBP ϕ131. All traffic between French units will be cryptographed in normal French systems.

2. All traffic in which the Navy is an addressee will be enciphered in system CCBP ϕ131 even after normal systems have been prescribed for the Army ashore.

a. All Army and Navy units in the assault echelon will hold CCBP ϕ122, edition B-6, the Combined Authentication System which will be used until the Army is established ashore. The first method of challenge and reply as prescribed on page III will be used.

3. Distribution of cryptographic systems is shown in the SOI.

4. SIGABA's will be taken ashore when headquarters of Division, Corps, and Army leave ship.

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INCLOSURE NO. 8 TO ANNEX NO. 6, FIELD ORDER NO. 1 - ANVIL

MESSAGE CENTER AND MESSENGER PLAN

1. Message Centers

a. Message centers will operate continuously on each Headquarters ship from time of embarkation until all units controlled by each ship have landed.

b. Message centers will operate continuously at the Shore Party CP's until ordered closed.

2. Air Messenger Service

a. Air messenger service (AMS) will be operated whenever practicable by Headquarters, Seventh Army between principal headquarters under this command.

b. L-5 planes will be provided, operated, and maintained by the 72nd Liaison Squadron (less detachment) under the direction of the Army Signal Officer.

c. Scheduled AMS will operate to each Army, Corps, and Division Headquarters, as well as to Seventh Army Rear Echelon and Base Section. This service will start operating about D + 5 or as soon as conditions permit the movement of L-5 messenger planes in the target area. The schedule will develop as required as shown on attached chart.

d. Special AMS will be provided by three (3) planes based at CP Seventh Army.

e. Squadron aircraft will be assigned for use as follows:

Scheduled AMS	22 planes
Special AMS	3 planes
Squadron Control	2 planes
Maintenance	5 planes
TOTAL	32 planes

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Note:

1. The numerator represents the number of daily flights, the denominator the number of plane on this route.
2. Time schedules to be announced later in SOI.

AIR MESSENGER SCHEDULE

HEADQUARTERS SEVENTH ARMY

OFFICE OF THE SIGNAL OFFICER

DRAWN BY:	CHECKED BY:	APPROVED BY:
R.W.D.	C.W.B.	[illegible]
21 JULY 1944	21 JULY 1944	[illegible]

INCLOSURE NO. 8

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SECRET BIGOT ANVIL

HEADQUARTERS SEVENTH ARMY
APO #758

Copy No 122

28 July 1944

Ref No K 1298

ANNEX NO. 2
To F.O. NO. 1 ANVIL

INTELLIGENCE ANNEX

Maps : See OPN Map (Annex I) to FO No. 1.

1. Summary of the enemy situation.

a. See G-2 Estimate of the Enemy Situation No. 1, dated 15 July 1944.

b. See G-2 Information Bulletin No. 1, dated 16 July 1944.

c. See G-2 Information Bulletin No. 2, dated 30 July 1944.

d. See collation map of defenses, printed 1 August 1944, this headquarters.

2. Essential Elements of Information.

a. See Annex No. 1, to G-2 Outline Plan for Operation ANVIL, this headquarters, 27 April 1944.

3. Reconnaissance and Photographic Missions.

a. See Annex No. 2, to G-2 Outline Plan, this headquarters, 14 June 1944.

b. Tactical Reconnaissance.

(1) Corps and independent Army units will submit daily requests to A. C. of S., G-2, Army, for Tactical Reconnaissance missions and for observation by fighter aircraft for artillery adjustment missions at 1900 on the day prior to that on which the mission is to be flown. In addition, Corps and independent Army units may request special missions of Army G-2 at any time if the situation so warrants.

(2) Tactical Reconnaissance broadcast can be heard at the hour and in the frequency indicated in the Army SOI and Corps SOI.

c. Photo Reconnaissance.

(1) Units may receive broadcasts made by P.R.U. radio on the frequency indicated in the Army SOI.

4. Prisoners and Captured Documents.

a. See Annex No. 4, to G-2 Outline Plan, this headquarters, 15 February 1944.

b. See Training Memorandum, Prisoners of War, Captured Documents and Materiel, this headquarters, 13 July 1944.

Maps.

a. See Annex No. 5, to G-2 Outline Plan, this headquarters, 17 April 1944.

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b. For aerial photos and mosaics, see Annex No. 2 to G-2 Outline Plan, this headquarters, 14 June 1944. Annotated mosaics at 1:10,000 of assault beaches and mosaics of entire area at 1:25,000 will be furnished interested units.

6. Counter Intelligence.

a. See Annex No. 3 to G-2 Outline Plan, this headquarters, 14 June 1944.

b. See Amendment No. 1 to Annex No. 3 to G-2 Outline Plan, this headquarters, 19 July 1944.

7. Auxiliary Agencies.

a. See Annex No. 4 to G-2 Outline Plan, this headquarters, 15 February 1944.

8. Reports.

a. See Annex No. 1, to G-2 Outline Plan, this headquarters, 27 April 1944.

b. See Amendment No. 1 to Annex No. 3 to G-2 Outline Plan, this headquarters, 19 July 1944.

By command of MAJOR GENERAL PATCH:

A. A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:

William W. Quinn
WILLIAM W. QUINN,
Colonel, G.S.C.,
A. C. of S., G-2.

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Copy No. 185 HEADQUARTERS SEVENTH ARMY
APO# 758

26 July 1944

ANNEX NO 3

FIELD ORDER NO 1 ANVIL

PART 1

TROOP LIST (US)

VI CORPS

Unit

VI CORPS

Hq & Hq Co, VI Corps

DIVISIONS

3rd Infantry Division

45th Infantry Division

36th Infantry Division

COMBAT COMMAND

Combat Command Sudre 1ere Division Blindee

Attached:

1ere Cie, 9e Regt Chasseurs d'Afrique

Det, 661/2 Cie De Reparation Engines Blindee

66e Cie de Munitions (--)

Det, 705 Cie de Ravitaillement en Essence

FIELD ARTILLERY

Hq & Hq Btry, VI Corps Arty

Hq & Hq Btry, 6th FA Gp

Hq & Hq Btry, 35th FA Gp

Hq & Hq Btry, 36th FA Gp

2nd FA Obsn Bn

36th FA Bn (155 Gun)

59th FA Bn (105 How SP)

69th FA Bn (105 How SP)

93rd FA Bn (105 How SP)

111st FA Bn (155 How)

634th FA Bn (155 How)

937th FA Bn (155 How)

938th FA Bn (155 How)

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Unit

FIELD ARTILLERY (Cont'd)

976th FA Bn (155 Gun)

977th FA Bn (155 Gun)

ANTIAIRCRAFT ARTILLERY

Hq & Hq Btry, 35th AAA Brig & 35th AAOR

Hq & Hq Btry, 5th AAA Gp

Hq & Hq Btry, 68th AAA Gp

Hq & Hq Btry, 105th AAA Gp

106th AAA (AW) Bn (SP)

441st AAA (AW) Bn (SP)

443rd AAA AW Bn (SP)

107th AAA (AW) Bn (Mbl)

433rd AAA (AW) Bn (Mbl)

451st AAA AW Bn (Mbl)

534 AAA (AW) Bn (Mbl)

895th AAA (AW) Bn (Mbl)

68th AAA Gun Bn (Mbl)

72nd AAA Gun Bn (mbl)

108th AAA Gun Bn (Mbl)

216th AAA Gun Bn (Mbl)

102nd AAA Barrage Balloon Btry (VLA)

103rd AAA Barrage Balloon Btry (VLA)

104th AAA Barrage Balloon Btry (VLA)

ARMORED FORCE

191st Tank Bn

753rd Tank Bn

756th Tank Bn

TANK DESTROYER

601st TD Bn

636th TD Bn

645th TD Bn

CAVALRY

117th Cav Rcn Sq

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Unit

CHEMICAL WARFARE

2nd Cml Bn Mtz (-1 Co)

3rd Cml Bn Mtz

83rd Cml Bn Mtz (-1 Co)

6th Cml Dep Co

11th Cml Maint Co

21st Cml Decon Co (-3 plats) (Smoke Troops)

ENGINEER

343rd Engr GS Regt

344th Engr GS Regt

Co C, (Bailey Bridge), 378th Engr Bn (Sep)

Co D, (Tradway Bridge), 378th Engr Bn (Sep)

1st Plat 424 Engr DT Co.

Contact Plat, 469th Engr Maint Co

Survey Plat, 661st Engr Topo Co

6617th Engr Mine Clearance Co

MILITARY POLICE

206th MP Co

MEDICAL

2nd Aux Surg Gp

14 Gen Surg Teams
3 Shock Teams
1 Gas Team
3 Orthopedic Teams
2 Neuro Teams
2 Thoracic Teams
3 Dental Prosthetic Teams
2 Maxial Facial Teams

10th Field Hospital

/ 6703rd Blood Transfusion Unit (Fwd Disb Sec)

11th Field Hospital

11th Evac Hospital (SH) (400 bed)

93rd Evac Hospital (SH) (400 bed)

95th Evac Hospital (SH) (400 bed)

ORDNANCE

Hq & Hq Det, 43rd Ord Bn (w/atchd Med)

Hq & Hq Det, 44th Ord Bn (w/atchd Med)

Hq & Hq Det, 45th Ord Bn (w/atchd Med)

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Unit

ORDNANCE (Cont'd)

14th Ord H M Co

45th Ord H M Co

46th Ord H M Co

87th Ord H M Co (FA)

261st Ord H M Co (AA)

3406th Ord M M Co

3408th Ord M M Co

3432nd Ord M M Co

64th Ord Amm Co

66th Ord Amm Co

680th Ord Amm Co

143rd Ord Bomb Disp Sq

144th Ord Bomb Disp Sq

145th Ord Bomb Disp Sq

146th Ord Bomb Disp Sq

QUARTERMASTER

46th QM GR Co (-1 Plat)

Plat, 549th QM Laundry Co

3426th QM Truck Co

SIGNAL

1st Signal Center Team

57th Signal Bn

Det A 117th RI Co

3201 SIS Det

4 Dets, 163rd Signal Photo CO

NAVAL

3 Naval Combat Intel Teams

15 Naval Shore Fire Control Parties

Naval Gunfire Liaison Personnel

The following listed Regimental Beach Groups with units listed, or similar units, will be attached VI Corps for the assault phase of the Operation ANVIL.

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Unit

3RD INFANTRY DIVISION BEACH GROUP

36th Engr C Regt

1st Naval Beach Bn

72nd Sig Co (Spec)

Det, 207 Sig Dep Co plus Det, 177th Sig Rep Co

Hq & Hq Det, 52nd Med Bn

376th Med Coll Co
377th Med Coll Co
378th Med Coll Co
682nd Med Coll Co
1st Plat & Hq Det, 616th Med Clr Co

Det, Boat Guards
157th MP PW Det
706th MP PW Det
790th MP PW Det

Det, 377th MP Escort Guard Co

Co A, 759th MP Bn

1st Plat, 21st Cml Decon Co (Smoke Troops)

Det, 63rd Cml Dep Co

3rd Plat, 450th Engr Dep Co

69th Ord Amm Co

Det, 77th Ord Dep Co

Det, 977th Ord Dep Co

3407th Ord Med Auto Maint Co (DUKW)

Det, 6690th Regulating Co

Hq & Hq Det, 530th QM Bn

4133rd QM Serv Co
4134th QM Serv Co
4135th QM Serv Co
4136th QM Serv Co
3277th QM Serv Co

3357th QM Truck Co

3634th QM Truck Co

Hq & Hq Det, 52nd QM Bn (Mbl)

3333rd QM Truck Co (DUKW)
3334th QM Truck Co (DUKW)
3335th QM Truck Co (DUKW)
3336th QM Truck Co (DUKW)

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Unit

3RD INFANTRY DIVISION BEACH GROUP (Cont'd)

3353rd QM Truck Co (DUKW)
3355th QM Truck Co (DUKW)

Sec, 3856th QM Gas Sup Co

1 Plat, 93rd QM Rhd Co

332nd Air Force Beach Detail

111th Beach Section, RAF

45TH INFANTRY DIVISION BEACH GROUP

40th Engr Combat Regt

4th Naval Beach Bn

71st Sig Co (Spec)

Det, 207th Sig Dep Co & 177th Sig Rep Co

Hq & Hq Det, 58th Med Bn

388th Med Coll Co
389th Med Coll Co
390th Med Coll Co
514th Med Clearing Co
2nd Plat, 616th Clearing Co

Co B, 759th MP Bn

1 Sec, 377th PW Esct Guard Co

Det, Boat Guards
133 Prov PW Det
175 PRov PW Det
191 Prov PW Det

3rd Plat, 21st Cml Decon Co (Smoke Troops)

Det, 63rd Cml Depot Co

2nd Plat, 450th Engr Dep Co

682nd Ord Amm Co

Det, 77th Ord Dep Co

Det, 977th Ord Dep Co

3487th Ord M Auto Maint Co (DUKW)

3633rd QM Truck Co

3425th QM Truck Co

Det, 6690th Regulating Co

Hq & Hq Det, 147th QM Bn (Mbl)

829th Amphibian Truck Co
830th Amphibian Truck Co
831st Amphibian Truck Co

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UNIT

45TH INFANTRY DIVISION BEACH GROUP (Cont'd)

832nd Amphibian Truck Co

1 Sec, 3894th QM Gas Sup Co

Hq & Hq Det, 240th QM Bn

3250th QM Serv Co
3251st QM Serv Co
3252nd QM Serv Co
3253rd QM Serv Co
4053rd QM Serv Co

Plat, 94th QM Rhd Co

Air Force Beach Detail

110th Beach Section, RAF

36TH INFANTRY DIVISION BEACH GROUP

540th Engr C Regt (- 48th Engr C Bn)

8th Naval Beach Bn

74th Sig Co (Spec)

Det, 207th Sig Dep Co / 177th Sig Rep Co

Hq & Hq Det, 56th Med Bn

885th Med Coll Co
886th Med Coll Co
887th Med Coll Co
891st Med Clearing Co
1st Plat, 638th Clearing Co

Co C, 759th MP Bn

1 Sec, 377th PW Esct Guard Co

Det, Boat Guards

192 Prov MP PW Det
601 Prov MP PW Det
Prov MP PW Det

3rd Plat, 21st Cml Decon Co (Smoke Troops)

Det, 63rd Cml Depot Co

1st Plat, 450th Engr Dep Co

603rd Ord Amm Co

Det, 77th Ord Dep Co

Det, 977th Ord Dep Co

3405th Ord M Auto Maint Co (DUKW)

Det, 6690th Regulating Co

1 Sec, 3894th QM Gas Sup Co

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Unit

36TH INFANTRY DIVISION BEACH GROUP (Cont'd)

2nd Plat, 94th QM Rhd Co

Hq & Hq Det, 53rd QM Bn (Mbl)

3337th QM Truck Co (DUKW)
3338th QM Truck Co (DUKW)
3339th QM Truck Co (DUKW)
3340th QM Truck Co (DUKW)
3354th QM Truck Co (DUKW)
3356th QM Truck Co (DUKW)

Hq & Hq Det, 259th QM Bn

3286th QM Serv Co
3287th QM Serv Co
3288th QM Serv Co
3289th QM Serv Co
3300th QM Serv Co
3299th QM Serv Co

3427th QM Truck Co

3360th QM Truck Co

Air Force Beach Detail

111th Brick Section, RAF

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TROOP LIST (US)

ARMY TROOPS

ANNEX NO 3

PART II FIELD ORDER NO 1

Unit

7th Army

Det, Army Hq & Hq Co & Special Troops

Det, Hq Seventh Army (Fr Beach Control Hq)

Special Forces

1st Airborne Task Force:

Hq & Hq Co, AB Task Force

2nd British Indep endent Prcht Brigade (Gp)

517th Parachute Infantry

509th Parachute Infantry Battalion

550th Airborne Infantry Battalion

1st Battalion, 551st Prcht Inf (Reinforced)

460th Parachute Field Artillery Battalion

463d Airborne Field ArtilleryBattalion

602d Glider Field Artillery Battalion

596th Airborne Engineer Company

887th Engineer Company

512th Airborne Signal Company

Anti-Tank Co, 442nd Infantry
552nd Infantry Anti-tank Company
Company "A" 2d Chemical Battalion

Company "D" 83d Chemical Battalion

172d D. I. D. British Hvy Aerial Resupply Co

334th Quartermaster Depot Co, Aerial Resupply (-)

3358th Quartermaster Truck Company

Detachment, 3d Ordnance Company (M.M.)

Special Service Force (-)

French Groupe de Commandos (-)

Engineer

Co D (ren Map Plat) 378th Engr Bn (Sep)

697th Engr Pet Dist Co & Hbl Lab, 701st Engr
Pet Dist Co

Surv Plat, 649th Engr Topo Bn

Co A, Engr Cam Bn

1202nd Engr Fire Fighting Plat

1204th Engr Fire Fighting Plat

1711th Engr Map Dep Det

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Military Police

204th MP Co

372nd MP Escort Guard

377th MP Escort Guard Co (-3 Secs)

504th MP Bn (-2 Cos)

Hq & Hq Det, 759th MP Bn

Medical

1st Adv Sec, 7th Med Depot Co

Quartermaster

94th QM Rhd Co (-2 Plats)

138th QM Truck Co

144th QM Truck Co

Det 202nd QM Car Co (-)

Hq & Hq Det, 528th QM Bn

3357th QM Truck Co

Signal

Army Sig Bn

Det, 163rd Sig Photo Co

226th Sig Opn Co

982nd Sig Serv Co

Miscellaneous

Det 72nd Liaison Sqd

Special Service Staff (Office Strategic Services)

11th Postal Regulating Unit

Twenty-eight Port Cos and Seven Bn Hq Dets.

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ANNEX NO 3

PART III FIELD ORDER NO 1

TROOP LIST(French)

ARMEE "B"

E-M Armee "B" et Cie QG 162/27 (-)

2e CORPS D'ARMEE

QG C.. et Cie QG CA 75

DIVISIONS

1re Division de Marche d'Infanterie

3eme Division d'Infantrie Algeriene

1st Div Blindee (-2 CC)

2e Regt Spahis Algerienne (Rcn Btn)

FIELD ARTILLERY

E-M du Groupement d'Artillerie No 1

1er Grpe du Regt d'Art Col du Levant

Det, 1st FA Obsn Bn (US)

3e Grpe du 65e Regt d'Art

ANTI-AIRCRAFT ARTILLERY

Det, Hq & Hq Btry, 34th AAA Brig (US)

Det, Hq & Hq Btry, 80th AAA Gp (US)

62nd AAA Gun Bn (US)

693rd AA (AW) Bn (SP)

TANK DESTROYER

7e Regt Chasseurs d'Afrique

8e Regt Chasseurs d'Afrique

ENGINEER

Cie Topographique du Genie No 31

101e Regt du Genie

MILITARY POLICE

521e Regulatrice Routiere

2e Cie du 11 Group de le Garde

MEDICAL

401e Hopital d'Evacuation

405e Hopital d'Evacuation

432e Bataillion Medical

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MEDICAL, cont'd

422e Hopital d Campagne

Organe de Reanination et de Transfusion No 441/3

451/1 Depot Avance

ORDNANCE

E-H du 651e Bon de Reparation

Cie Moyene de Reparation Auto No 651/3

Cie Moyene de Reparation Auto No 652/3

Cie Moyenne de Reparation Material 652/1

64e Cie de Munitions

65e Cie de Munitions

QUARTERMASTER

1er Bon du 8 Regiment de Tirgilleur Senegalais, Pioniers

Gestion de Subsistance d'Etapes No 323

Gestion de Subsistance d'Etapes No 325

Cie Mixte de Ravitaillement en Essence No 704 (2 dets)

SIGNAL

61e Bon de Transmission de CA

3 Dets, 163rd Sig Photo Co (US)

806 Bataillon de Construction

Det, Parc de Transmission No 810 & Det Cie Technique de Transmission No 811

6693rd Sig Det (Prov) (US)

Det, Trans Armee "B" (Cie d' Exploit 827/1)
(Son Ecoutes 828)
(Grp Tele Mil 829)

TRANSPORTATION

11e Cie du Grp de Transport No 501

The following units will be available to Army "B" on subsequent convoys:

9e Division d'Infanterie Coloniale

2 Groupes de Tabors

Supporting Units.

By Command of Major General PATCH:

A. A. WHITE,
Brig, General, G.S.C.,
Chief of Staff,

OFFICIAL: John S. Guthrie

JOHN S. GUTHRIE,
Colonel, G.S.C.,
A.C. of S., G-3

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BIGOT ANVIL

Ref No X-1317

HEADQUARTERS SEVENTH ARMY
APO 758

[redacted] SECRET
Auth: CG 7 Army
Initials:
Date: 29 July 44

AG 370-C

29 July 1944

FO #1 (ANVIL)

Maps: G3GS 2738 FRANCE 1/250,000, Sheets 37, 38, 42, 43.

1. a. Annex #2 (Intelligence)

b. (1) Seventh Army, supported by Western Naval Task Force and XII Tactical Air Command, will assault the South coast of FRANCE, secure a beachhead East of TOULON and then assault and capture TOULON.

(2) The Naval Commander, Western Task Force, will command the entire seaborne expedition from the time of sailing until the ground forces are firmly established ashore; thereafter command of ground operations passes to the Commanding General, Seventh Army.

(3) XII Tactical Air Command will support the operation. Additional air support by MATAF will be available to Commanding General, XII Tactical Air Command, on request.

2. a. Seventh Army will make a daylight seaborne and airborne assault on area shown (Annex #1) to seize and secure a beachhead for the assault and capture of TOULON.

b. "D" day, "H" hour to be announced later.

c. Troops: See Annex #3.

d. Shipping: See Annex #4.

3. See Annex #1 (Operations Overlay).

a. KODAK FORCE (VI US Corps):

Consisting of: ALPHA FORCE (3rd Inf Div reinf)
DELTA FORCE (45th Inf Div reinf)
CAMEL FORCE (36th Inf Div reinf)
Combat Command SUDRE (1st Fr Armd Div reinf)

(1) Make a daylight assault at "H" hour on "D" day on beaches between CAPE CAVALAIRE and AGAY.

(2) Destroy enemy beach defenses, advance rapidly inland and contact RUGBY and ROMEO Forces.

(3) RUGBY Force attached KODAK Force when contact is made.

(4) ROMEO Force attached KODAK Force at "H" hour.

(5) Capture LE MUY on "D" day.

(6) Extend the beachhead rapidly to the Blue Line (Annex #1): THEOULE SUR MER - BAGNOLS EN FORET - TRANS EN PROVENCE - LE CANNET DES MAURES - COLLOBRIERES - CAPE DE LEOUBE. After reorganization, continue advance to the West and Northwest.

(7) Secure airfield sites in the ARGENS Valley (See Operations Instructions No. 1), between FREJUS and LE LUC from ground-observed enemy Artillery fire.

(8) Protect the right flank of the Army.

(9) Be prepared to release Combat Command SUDRE (1st French Armd Div), RUGBY Force, and ROMEO Force to Army control on Army order.

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(10) After passage of lines by GARBO Force (see para 3 e), continue the advance within zone.

(11) Boundary between KODAK Force and GARBO Force: COLLOBRIERES (to GARBO Force) - CARNOULES (to KODAK Force) - FORCALQUEIRET (to GARBO Force) - TOURVES (to KODAK Force). Road: CARNOULES - ST ANASTASIE - FORCALQUEIRET - BRIGNOLES, all to KODAK Force.

(12) Beach groups will be released from attachment to VI Corps and will be placed in support of VI Corps at "H" Hour.

b. RUGBY FORCE (1st Airborne Task Force):

(1) Land in LE MUY area starting about first light, "D" day.

(2) Prevent movement of enemy forces into the assault area from the direction of LE MUY and LE LUC.

(3) Attached to KODAK Force when contacted by KODAK Force.

(4) Assemble glider pilots in vicinity of Force CP for evacuation from assault area. Notify Seventh Army when pilots are assembled.

c. SITKA FORCE (1st Special Service Force):

(1) Assault the Islands of PORT CROS and LEVANT under cover of darkness the night of D - 1 / D day.

(2) Destroy enemy coastal battery on East end of LEVANT before 0600 "D" day.

(3) Destroy all enemy defenses on the islands prior to "H" hour.

(4) Turn over garrison of the islands to French garrison force on or about D + 2, evacuate prisoners to vicinity of Beach 259, and withdraw to the mainland under Army control.

(5) See Annex #13. (Special Instructions for SITKA and ROMEO Forces.)

d. ROMEO FORCE (French Groupe de Commandos):

(1) Land in the vicinity of CAPE NEGRE under cover of darkness on the night of D - 1 / D day.

(2) Destroy all enemy coastal defenses on CAPE NEGRE.

(3) Block the coastal highway vicinity of CAPE NEGRE.

(4) Seize and hold high ground in vicinity of BISCARRE (3 km North of CAPE NEGRE.)

(5) Attached to KODAK Force at "H" hour.

(6) See Annex #13 (Special Instructions for SITKA and ROMEO Forces.)

e. GARBO FORCE (II French Corps):

(1) Debark rapidly over secure beaches in the ST TROPEZ - CAVALAIRE area upon arrival in the transport area.

(2) Assemble and organize in the area shown (see Annex #1).

(3) Upon Army order, be prepared to pass through elements of the KODAK Force in zone, and attack TOULON.

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(4) Maintain contact with KODAK Force on the right.

(5) After capture of TOULON, be prepared to continue the advance in zone to the West and Northwest.

f. ARMY RESERVE:

(1) Following units revert to Army control on Army order:

(a) RUGBY Force.

(b) ROMEO Force.

(c) SITKA Force.

(d) Combat Command SUDRE (1st Fr Armd Div)

g. I FRENCH CORPS:

(1) Be prepared to embark when ordered so as to arrive in the target area on the following schedule:

2nd (Fr) Moroccan Inf Div (2 DIM) (reinf) from NAPLES by D + 20.

4th (Fr) Mountain Div (4 DMM) (reinf) from NAPLES by D + 30.

5th (Fr) Armored Div (5 DB) (reinf) from ORAN by D + 40.

h. ARMY TROOPS:

(1) (Annex #3.) Units will land over ALPHA, DELTA, and CAMEL beaches as indicated in Annex #4.

i. WESTERN NAVAL TASK FORCE:

(1) Naval Gunfire Support Plan (Annex #12).

j. MEDITERRANEAN ALLIED TACTICAL AIR FORCES:

(1) D - 1 and D day Bombardment (Annex #5).

x. (1) A demolition party, French Naval Assault Groups, will land in the vicinity of POINTE DES TRAYAS on the night of D - 1 / D day with the mission of executing demolitions on the CANNES - ST RAPHAEL and CANNES - FREJUS roads. This party will then fall back on Army North flank. Further details will be included in operations instructions.

(2) All commanders will insure that prior to "H" hour, "D" day, all troops receive sufficient information of the operation to enable them to execute their duties effectively. The minimum essential instruction only will be issued prior to 4 hours after last touching shore (See Letter, Hq Seventh Army, 15 July 44, "Security of Operation "ANVIL" (Mounting)".)

(3) All watches will be synchronized with ships time prior to debarkation.

(4) All personnel will be cautioned that American and British parachute and glider troops will be operating inland from the beaches. A glider shuttle is scheduled in the area at about 0800 and a subsequent shuttle at 1800 " D" day. All Troop Carrier Aircraft will be painted with BLACK and WHITE stripes on wings and fuselage. Gliders will not be painted with these BLACK and WHITE stripes. (See Operations Instructions #5).

(5) Yellow smoke identifies friendly ground troops to friendly aircraft.

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(6) Prior to final embarkation for the target area, CG GARBO Force (II French Corps) will establish necessary liaison with CG KODAK Force (VI US Corps) to effect coordination of the landing, assembly, and organization of GARBO Force and passage of VI Corps lines. (See Operations Instructions #2.)

4. See Adm Order #1.

5. a. Annex #8 (Signal).

b. Succession of command: Ashore: Major General A. M. PATCH
Major General L. K. TRUSCOTT
Major General J. E. DAHLQUIST

At Sea: In case the USS CATOCTIN is rendered inoperative, command will be assumed by the Deputy Army Commander, Brig. Gen. A. A. WHITE, aboard the SS HENRICO, until command channels with all headquarters are re-established.

c. Command Posts

	Afloat	Ashore	Axis
(1) Seventh Army	SS HENRICO	ST TROPEZ	ST TROPEZ - TOULON
(Advance CP)	USS CATOCTIN		
(2) KODAK Force	USS CATOCTIN	ST MAXIME	LE LUC - BRIGNOLES
(Alternate)	BARNETT		
(3) GARBO Force	BATORY	COGOLIN	LA LONDE - TOULON

PATCH,
Commanding.

WHITE,
C/S.

OFFICIAL: Guthrie
GUTHRIE,
G-3.

ANNEXES:

#1 - Operations Overlay
#2 - Intelligence Plan
#3 - Troop List
#4 - Convoy Plan - To be issued separately
#5 - Air Support Plan - To be issued separately
#6 - Signal Orders
#7 - Antiaircraft Plan - Published as Corrected Annex, 25 July, to "ANVIL" Outline Plan, 13 July.
#8 - Engineer Plan - Published as Annex #11 to "ANVIL" Outline Plan, 13 July.
#9 --Beach Operations Plan
#10 - Chemical Plan - To be issued separately.
#11 - Artillery Plan - To be issued separately.
#12 - Naval Gunfire Support Plan - To be issued separately.
#13 - Special Instructions, BITKA and ROMEO Forces - To be issued separately.

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AAA	20
Engr	21
CWS	22
Sig	23 - 24
Beach Control Group	25
"A" Force	26
VI Corps	27 - 32
Army "B"	33 - 38
French Mission	39 - 40
1st A/B Task Force	41
1st S.S.F.	42
French Grp Commandos	43
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HEADQUARTERS SEVENTH ARMY
A.P.O. #758 U.S. ARMY

Copy No. 177

Ref. No. X-1334

30 July 1944

ANNEX NO. 4
TO F.O. NO. 1 ANVIL

CONVOY PLAN

1. Attached is Convoy Plan listing all convoys scheduled to date.

2. Pages 1 thru 5 contain Fast Speed convoys. Pages 6 thru 8 contain Medium Speed convoys. Pages 9 thru 19 contain Slow Speed convoys.

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brig. Gen., U.S.A.,
Chief of Staff.

OFFICIAL:

Oliver C. Harvey

OLIVER C. HARVEY,
Colonel, G. S. C.,
A. C. of S., G-4.

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BIGOT - ANVIL

CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
1	SY-1	NAPLES	D + 4	SITKA Dest.	D - 1	5 LPD PRINCE HENRY (523) PRINCE DAVID (525)		Special Service Force
2				Cape Negre	D - 1	PRINCESS BEATRIX (526) PRINCE ALBERT (522) PRINCE BAUDOUIN (524)		Commandos
3	SF-1B	NAPLES	D - 3	ALPHA	D Day	Trans Div #1 HENRICO (APA 45) CHASE (APA 26) ARUNDEL (XAP 76) THURSTON (XAP 77) OBERON (AKA 14) ANDROMEDA (AK 15)	M/T only on APAs and AKAs	HENRICO: Flagship & HQ Ship Seventh Army. To discharge over Beach 261. Space for 900 3rd Div personnel reserved. DERBYSHIRE: Space for 900 personnel reserved for Army to discharge on Beach 261. DUNERA: Army Troops. 50 Port personnel on APAs 25 Port personnel on AKAs
4						DERBYSHIRE (504) DUNERA (506)		

SECRET

BIGOT - ANVIL

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
5	SF-1	NAPLES	D - 3	CAMEL	D Day	Trans Div #3 CARROLL (APA 28) JEFFERSON (APA 30) DOROTHEA L. DIX (XAP 67) NIGHTINGALE (XAP 70) CEPHEUS (AKA 18) ACHERNAR (AKA 53) BETELGEUSE (AKA 11)	M/T only on APA and AKA	BETELGEUSE: Reserved for VI Corps Hq. 50 Port personnel on APA or XAP 25 Port personnel on AKAs
6						KAREN (511) GENERAL SQUIER (516)		
7	SF-1A	NAPLES	D - 3	DELTA	D Day	Trans Div #5 STANTON (XAP 69) BARNETT (APA 5) DICKMAN (APA 13) LYON (XAP 71) ARCTURUS (AKA 1) PROCYON (AKA 2)	M/T only on APA and AKA	50 Port personnel on APA or XAP 25 Port personnel on AKA
						ASCONIA (501) DILWARA (505)		45 Div Loading
8						MARINE ROBIN (512) SANTA ROSA (514)		Corps Loading 1000 spaces reserved for Air Force personnel

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CONVOY PROGRAMME

HQ 7th ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
9	SF-2B	NAPLES	D-3	ALPHA	D	47 LCI(L)		3rd Division
10	SF-2A			DELTA	D	38 LCI(L)		45th Division
11	SF-2			CAMEL	D	30 LCI(L)		36th Division
12	Special No. 2	ORAN	?	CAMEL	D/1	WINCHESTER CASTLE (520)		1st CC/Soudre (FR)
13				DELTA	D/1	PARKER (513)		2nd CC/1st Armored Div. (FR)
14	TF-1	TARANTO	D-5	ALPHA	D/1	DURBAN CASTLE (507) EMPIRE PRIDE (509) VOLENDAM (519) STAFFORDSHIRE (517) SOBIESKI (515)		1st DIV
15	TF-1	TARANTO	D-5	DELTA	D/1	BATORY (502) CIRCASSIA (503) TAKLIWA (518) WORCESTERSHIRE (521) CAMERONIAN (510) EASTERN PRINCE (508)		BATORY: HQ Ship Army "B"
16	SF-3	NAPLES	D/5		D/7	30 LCI(L)		

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
17	SF-4	NAPLES	D/8		D/10	48 LCI(L)		
18	SF-5	NAPLES	D/8		D/10	Trans Div #3		
19	SF-6	NAPLES	D/13		D/15	Trans Div #5		
20	AF-1	ORAN	D/12		D/15	Trans Div #1 5 Pers. Ships		
21	SF-7	NAPLES	D/18		D/20	Trans Div #3		
22	SF-8	NAPLES	D/18		D/20	48 LCI(L)		
23	SF-9	NAPLES	D/23		D/25	Trans Div #1		
24	SF-10	NAPLES	D/23		D/25	Trans Div #5		
25	AF-2	ORAN	D/22		D/25	30 LCI(L)		
26	AF-3	ORAN	D/27		D/30	5 Pers. Ships		
27	SF-11	NAPLES	D/28		D/30	48 LCI(L)		
28	AF-4	ORAN	D/32		D/35	Trans Div #3		
29	SF-12	NAPLES	D/33		D/35	Trans Div #1 Trans Div #5		
30	SF-13	NAPLES	D/33		D/35	30 LCI(L)		
31	SF-14	NAPLES	D/38		D/40	48 LCI(L)		
32	SF-15	NAPLES	D/38		D/40	5 Pers. Ships		
33	SF-16	NAPLES	D/43		D/45	Trans Div #1 Trans Div #5		
34	SF-17	NAPLES	D/43		D/45	30 LCI(L)		

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
35	AF-5	ORAN	D/47		D/50	Trans Div #3		
36	SF-18	NAPLES	D/48		D/50	48 LCI(L)		Completes Naples Lift
37	AF-6	ORAN	D/53		D/55	5 Pers. Ships		
38	AF-7	ORAN	D/58		D/60	Trans Div #1		
39	AF-8	ORAN	D/63		D/65	Trans Div #5		

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
50	SM-1-B	NAPLES	D-5	ALPHA	D	22 LST		3rd Div. 1 fitted with cub flight deck.
51	SM-1-A			DELTA	D	22 LST		45th Div. 1 fitted with cub flight deck.
52	SM1			CAMEL	D	22 LST		36th Div. 1 fitted with cub flight deck.
				TARGET	D on call	3 LST		Fitted with GCI - one to be stowed for landing D Day
53	SS-1B	NAPLES	D-6	ALPHA	D	38 LCT		3rd Div. 1 LCT for VI Corps Hq.
54	SS-1A			DELTA	D	40 LCT		45th Div. 3 LCT for VI Corps Hq.
55	SS-1			CAMEL	D	38 LCT		36th Div. 1 LCT for VI Corps Hq.
56	SM-4	NAPLES	D/7		D/10	17 LST		
57	SM-6	NAPLES	D/17		D/20	17 LST		
58	AM-6	ORAN			D/25	25 LST		
59	SM-9	NAPLES	D/32	ASTORIA	D/35	15 LST		
60	AM-9	ORAN	D/37	ASTORIA	D/40	27 LST		
61	SM-11	NAPLES	D/42	CYRIL	D/45	15 LST		
62	AM-11	ORAN	D/45	CYRIL	D/50	10 LST		
63	AM-12	ORAN	D/50	CYRIL	D/55	27 LST		
64	AM-13	ORAN	D/55	CYRIL	D/60	15 LST		COMPLETES LIFT FROM ORAN

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HQ 7TH ARMY - 30 July 1944

CONVOY PROGRAMME

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
70	KM-1	CALVI	D+1	CAMEL	D+2	BRUISER 2 LST THRUSTER		AIR FORCE
71	KM-2	CALVI	D+3	CAMEL	D+4	9 LST		AIR FORCE
72	CM-1	AJACCIO	D+4	DELTA	D+5	Mule Ship CHATEAU LATOUR	200 Animals	
73						15 LST	1400 Animals	7 LSTs to be fitted for animals. GROUND FORCES
74						STAR (Coaster)	Stores & Forage approx-2000 tons	
75						15 LST		GROUND FORCES 3 LSTs equipped with sub flight deck.
76				ALPHA	D+5	CORCREST (Coaster)	Approx. 1800 tons	
77	KM-3	CALVI	D+7	ALPHA	D+8	2 LST		AIR FORCES
78				DELTA	D+8	1 LST		
79				CAMEL	D+8	6 LST		
80	CM-2	AJACCIO	D+8	DELTA	D+9	35 LST		GROUND FORCES
81	KM-4	CALVI	D+11	DELTA	D+12	4 LST		AIR FORCES
82				CAMEL	D+12	5 LST		
83	CM-3	AJACCIO	D+12	ALPHA	D+3	10 LST		GROUND FORCES
84	KM-5	CALVI	D+15	DELTA	D+16	5 LST		AIR FORCES
85				CAMEL	D+16	4 LST		
86	CM-4	AJACCIO	D+16	ALPHA	D+17	10 LST		GROUND FORCES
87	KM-6	CALVI	D+19	ALPHA	D+20	5 LST		AIR FORCES
88				DELTA	D+20	2 LST		
89				CAMEL	D+20	2 LST		
90	CM-5	AJACCIO	D+20	ALPHA	D+21	10 LST		GROUND FORCES

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
91	KM-7	CALVI	D/23	PONT	D/24	9 LST		AIR FORCES
92	CM-6	AJACCIO	D/24	PONT	D/25	10 LST		GROUND FORCES
93	KM-8	CALVI	D/27	PONT	D/28	9 LST		AIR FORCES
94	CM-7	AJACCIO	D/28	PONT	D/29	10 LST		GROUND FORCES
95	KM-9	CALVI	D/31	PONT	D/32	9 LST		AIR FORCES
96	CM-8	AJACCIO	D/32	PONT	D/33	10 LST		GROUND FORCES
97	KM-10	CALVI	D/35	PONT	D/36	9 LST		AIR FORCES
98	CM-9	AJACCIO	D/36	PONT	D/37	10 LST		GROUND FORCES

AIR FORCE LIFT FROM CORSICA COMPLETED.
BUILD UP FROM SARDINIA STARTS WITH 9 LST.
GROUND FORCE LIFT FROM CORSICA COMPLETE.

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HQ-7TH ARMY - 30 July 1944

CONVOY PROGRAMME

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
100	SM-2D	NAPLES	D - 3	ALPHA	D-Day	51 LOUISA M. ALCOTT 44 BLACK HAWK 47 HENRY W. BEECHER 48 JAMES McHENRY 52 MERCY WARREN 53 RICHARD RUSH 45 CUSHING EELLS 46 EDWARD BURLESON 55 WILLIAM BLOUNT 49 LAURA KEENE	Carries approx 6600 tons maintenance	3rd Division Ships. 125 port personnel aboard each ship.
101						17 JOHN B. HOOD 13 GEORGE MEADE	M/T only M/T only	Army Ships - 1/2 of capacity reserved for Air Forces on both ships. 125 Port Pers on ea ship.
102						35 JAMES RUMSEY 15 GEORGE LEONARD	M/T only M/T only	Air Force Ships - 1/2 of capacity reserved for Army on both ships. 51 Port Pers on ea ship.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
103	SM - 2A	NAPLES	D - 3	DELTA	D-Day	41 TABITHA BROWN 38 JOHN W. BROWN 40 PETER McGUIRE 33 HENRY CONNERS 43 WILLIAM JACKSON 30 ETHAN ALLEN 32 GEORGE McCRARY 39 MARION BOWARD 27 ABEL STEARNS 31 FURNIFOLD SIMMONS	Approx 9000 tons of Maintenance.	45th Division Loading 125 Port Personnel aboard each ship.
104						34 HOWELL E. JACKSON 29 ALEXANDER DALLAS 28 ALBERT MICHELSON	Carries Maintenance M/T Only Carries Maintenance	Corps Ship - 125 Port Pers Corps Ship - 101 Port Pers Corps Ship - 125 Port Pers.
105						22 LINCOLN STEFFINS 36 JOHN GROPPER 113 EDW. RICHARDSON	Carries Maintenance M/T Only M/T Only	Air Force Ship - 50 Port Pers. Air Force Ship - 51 Port Pers. Air Force Ship - 76 Port Pers.
106						14 GEORGE HANDLEY	M/T Only	Army Ship - 125 Port Pers

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BIGOT - ANVIL

HQ 7TH ARMY - 30 July 1944

CONVOY PROGRAMME

Page 11

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
107	SM - 2	NAPLES	D - 3	CAEL	D-Day	23 LUTHER MARTIN 26 WILLIAM RAWLE 25 WILLIAM FLOYD 11 AMBROSE BURNSIDE 12 ANDREW MOORE 18 JOHN LAWSON 21 KEMP BATTLE 24 SAMUEL GRIFFIN 19 JOHN TRUMBULL 16 JAMES MOORE	Lifts approx 8600 tons maintenance	36th Division Shipping 125 Port Pers aboard each ship
108						42 WILLIAM A. GRAHAM 20 JOSIAH BARTLETT 37 JOHN MOORHEAD	M/T Only Lifts approx _____ tons M/T Only	Air Force Ships - Each carry 51 Port Pers.
109						54 ROGER WILLIAMS 50 LEONIDAS POLK	Lifts approx _____ tons maintenance Lifts approx _____ tons maintenance	Corps Ships - carry 126 Port Pers each.
110						111 SAM WASH 112 JAN LIEVENS		Carries 50 DUKWs plus Pet. Dist. Co. 101 Port Pers aboard each.

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P.O.E.	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
111	AM - 1	CRAN	D - 5	ALPHA	D + 1	61 GRANVILLE M. DODGE 59 GEORGE BANCROFT 57 EDWIN GODKIN ~~58 CASEY JONES~~ 67 WILLIAM CODY 66 TRISTAM DALTON 64 JOSEPH H. NICHOLSON 69 JOHN SANGRANT 68 OLIVER FINEY 70 KING WOOLSEY	M/T Stores Approx 1250 tons M/T Stores " " " M/T Stores M/T Only " " " " " " " " " " " "	2nd Combat Command of 1st French Arm'd Div. 126 Port Pers on each of the three M/T Stores Ships and 75 Port Pers on only one of the 7 M/T Only Ships.
112				CAMEL		60 GEORGE BUCHANAN 56 BRET HARTE 63 JOHN S. PILLSBURY 65 TARLETON BROWN 62 JAMES JACKSON 6 LST	M/T Stores Approx 1250 tons " " " " " " " " " " M/T Only " "	LSTs include THRUSTER and BRUISER. Carries CC Soudre (1st Combat Command of 1st French Arm'd Div). 20 DUKWs included in this convoy. 125 Port Pers on each of the M/T Stores Ships and 75 Port Pers on only one of the two M/T Only Ships.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
						79 FORT ARKLAVIK	M/T Stores	M/T Stores Ships carry total of approx 4400 tons and each of these ships have 125 Port Personnel.
						84 FORT FRONTENAC	" "	
						80 FORT BEAUSEJOUR	" "	
						76 EMPIRE ROSALIND	" "	
						88 FORT MANIN	M/T Only	100 Port Pers on 4 M/T Only ships and 50 Port Pers on 3 M/T Only Ships. Remaining 10 M/T Only Ships have no port personnel aboard
						83 FORT FROBISHER	" "	
						82 FORT CUMBERLAND	" "	
						81 FORT CHESTERFIELD	" "	
						73 EMPIRE CLARION	" "	Carried 1st DIV (French) and a portion of Corps troops.
						75 EMPIRE OUTPOST	" "	
113	TM-1	TARANTO	D-6	ALPHA	D/1	74 EMPIRE NOBLE	" "	
						77 EMPIRE UNICORN	" "	
						104 SAMBRE	" "	
						105 SAMOA	" "	
						106 SAMPAN	" "	
						96 OCEAN GALLANT	" "	
						103 OCEAN VESPER	" "	
						93 HARLESDEN	" "	
						94 JERSEY HART	" "	
						109 THISTLEMUIR	" "	
						95 NORMAN MONARCH	" "	

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
114	TM-1 (Cont'd)	TARANTO	D-6	DELTA	D/1	97 OCEAN GLORY	M/T Stores	MT/Stores ships carry total of approx 4400 tons and each of these ships have 125port pers. 100 port pers. on 4 MT Only ships & 50 port pers. on 3 MT Only ships. Remaining 8 MT Only ships have no port pers. Carried 3rd DIA (French and a portion of Corps and Army B Troops.
						99 OCEAN MESSENGER	" "	
						102 OCEAN TRAVELLER	" "	
						89 FORT MICHIPICOTEN	" "	
						92 FORT STAGER	M/T Only	
						85 FORT GASPEREAU	" "	
						91 FORT RICHELIEU	" "	
						86 FORT GRAHAM	" "	
						90 FORT PEMBINA	" "	
						87 FORT MAISONNEUVE	" "	
						107 SANSTEAL	" "	
						100 OCEAN PRIDE	" "	
						98 OCEAN GYPSY	" "	
						101 OCEAN RIDER	" "	
						72 COULBURN	" "	
						108 THISTLEDALE	" "	
						71 CHERSEY	" "	
						78 EGSTY TRADER	" "	
						110 VAN DER CAPELLE	" "	

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CONVOY PROGRAMME

HQ 7TH ARMY - 30 July 1944

PART.	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
115	SM-3	NAPLES	D/2	ALPHA	D/5	7 MT/Stores Ships	Approx 11800 tons	
				DELTA		8 MT/Stores Ships	Approx 13000 tons	
				CAMEL		7 MT/Stores Ships	Approx 11000 tons	
116	AM-2	ORAN	D Day	ALPHA	D/5	1 MT/Stores Ship	Approx 1000 tons	
						1 Coaster Dry (CROPSUS)	Approx 1400 tons	
				DELTA		1 Coaster Dry (PENUH)	Approx 2500 tons	
				CAMEL		2 MT/Stores Ships	Approx 2500 tons	
117	SM-4	NAPLES	D/7	ALPHA	D/10	9 MT/Stores Ships 1 Coaster Dry (GODVIN) 1 POL Coaster (SAMUEL V SHERWOOD or NARVA)	Approx 16000 tons Approx 1800 tons Approx 1500 tons V-80	POL Coaster loads CAGLIARI, joins convoy at Straits of Bonifacio D/9
				DELTA		5 MT/Stores Ships 4 Mule Ships 1 POL Coaster (LEVANT)	Approx 8500 tons Approx 2000 animals Approx 1000 tons V-80 " 500 Lub & AGO	LEVANT has capacity of 2400 tons, will load Palermo join convoy at Naples.
				CAMEL		4 MT/Stores Ships 1 Coaster Dry (ODYSSEUS)	Approx 7100 tons Approx 1400 tons	
118		NAPLES		PONT	ON CALL	3 MT Ships	Loaded per NATOUSA letter 563.51 (SSGDS) dated 17 July 1944	Port Rehabilitation Party. Loaded to be on call from D/10.
119	AM-3	ORAN	D/5	ALPHA	D/10	1 MT/Stores Ship	Approx 1800 tons	
				DELTA		3 MT/Stores Ships	Approx 4500 tons	
				CAMEL		3 MT/Stores Ships 1 POL Coaster (CORFELL or CONSTAR)	Approx 4300 tons : Approx 570 tons V-80 : Approx 900 tons V-100 : Approx 30 Tons Lubs & AGO	POL Coaster to load Bone, joins convoy off Bougie D/7

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CONVOY PROGRAMME

HQ 7TH ARMY 30 June 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
120	SM-5	NAPLES	D/12	ALPHA	D/15	9 MT/Stores Ships 1 POL Coaster (KINNICHOT or CURRIN)	Approx 13700 tons Approx 1070 tons V-80 Approx 430 tons Lub & AGO	POL Coaster loads Palermo, joins convoy at Naples.
				DELTA		5 MT/Stores Ships	Approx 8100 tons	
				CAMEL		4 MT/Stores Ships 1 POL Coaster (SAMUEL) (V SHETUVE or NATWA)	Approx 6900 tons Approx 1500 tons	POL Coaster loads Cagliari, joins convoy at Straits of Bonifacio on D/14.
121	AM-4	ORAN	D/10	ALPHA	D/15	2 MT/Stores Ships	Approx 2000 tons	
				DELTA		2 MT/Stores Ships 1 Coaster Dry 1 POL Coaster (CONNELL or COSTAL)	Approx 3100 tons Approx 1500 tons Approx 1500 tons V-100	POL Coaster loads Bone, joins convoy off Bougie on D/12.
				CAMEL		3 MT/Stores Ships 1 Coaster Dry 1 Tanker (SYNCLINE)	Approx 4100 tons Approx 1500 tons Approx 1000 tons V-100	
122	SM-6	NAPLES	D/17	ALPHA	D/20	7 MT/Stores Ships	Approx 8000 tons	
				DELTA		3 MT/Stores Ships	Approx 3900 tons	
				CAMEL		5 MT/Stores Ships 1 Tanker (SALT CREEK)	Approx 5000 tons Approx 1000 tons V-100	
123	AM-5	ORAN	D/15	ALPHA	D/20	2 MT/Stores Ships 1 Coaster Dry 1 POL Coaster (KELLOGG)	Approx 2400 tons Approx 1500 Approx 1600 tons V-80 " 100 tons Lub	POL Coaster loads Algier and joins convoy off Algiers on D/16
				DELTA		2 MT/Stores Ships 1 Coaster Dry 1 LIBERTY 1 POL Coaster	Approx 2900 tons Approx 1500 Approx 5200 tons V-80 Approx 469 tons AGO " tons V-100 Approx 2400 tons V-100	POL Coaster loads Algiers and joins convoy off Algiers on D/16. LIBERTY CARPAIDER
				CAMEL		3 MT/Stores Ships 2 Pol Coasters	Approx 4400 tons Approx 2700 tons V-100 440 tons Lubs	POL Coasters load Algiers and join convoy off Algiers on D/16.

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HQ 7TH ARMY - 30 July 1944

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
124	SM-7	NAPLES	D/22	ALPHA	D/25	5 MT/Stores Ships	Approx 7350 tons	
				DELTA		4 MT/Stores Ships 1 Liberty Ship or 3 POL Coasters	Approx 5200 tons Approx 5850 tons V-80 " 480 tons MT Lubs " 200 tons Avn Lubs " 1140 tons AGO/Hero	To load Syracuse and join convoy at Naples.
				CAMEL		5 MT/Stores Ships 1 Tanker (MANNEVOTON)	Approx 5600 tons Approx 1000 tons V-100	Tanker loads Cagliari, joins convoy at Straits of Bonifacio on D/24
125	AM-6	ORAN	D/20	ALPHA	D/25	2 MT/Stores Ships 1 Coaster Dry 1 Liberty Ship (JOHN HOPKINS)	Approx 2400 tons Approx 1500 tons Approx 1366 tons V-80 Approx 4464 tons V-100	Ex UGS-49
				DELTA		3 MT/Stores Ships	Approx 2700 tons	
				CAMEL		5 MT/Stores Ships 1 Coaster Dry 1 Liberty Ship	Approx 4700 tons Approx 1500 tons Approx 6420 tons V-80 " 510 tons AGO	Liberty Ship Ex UGS-50
126	SM-8	NAPLES	D/27	ASTORIA	D/30	15 MT/Stores Ships		
127	AM-7	ORAN	D/25	ASTORIA	D/30	10 MT/Stores Ships		
128				ASTORIA	D/30	5 Coasters	2 Coasters Dry 3 " POL	Coasters to load and join either Oran or Naples convoys
129	SM-9	NAPLES	D/32	ASTORIA	D/35	15 MT/Stores Ships		
130	AM-8	ORAN	D/30	ASTORIA	D/35	10 MT/Stores Ships		
131				ASTORIA	D/35	5 Coasters	2 Coasters Dry 3 " POL	Coasters to load and join either Oran or Naples Convoy.

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PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
132	SM-10	NAPLES	D/37	ASTORIA	D/40	15 MT/Stores Ships 4 Mule Ships		
133	AM-9	ORAN	D/35	ASTORIA	D/40	10 MT/Stores Ships 1 Liberty Ship (Civil Supplies)	6133 Tons Civil Supplies	Civil Supply Ship Direct from USA to join convoy at ORAN.
134				ASTORIA	D/40	5 Coasters	2 Coasters Dry 3 Coasters POL	To load and join either ORAN or NAPLES Convoy.
135	SM-11	NAPLES	D/42	CYRIL	D/45	10 MT/Stores Ships		
136	AM-10	ORAN	D/40	ASTORIA	D/45	15 MT/Stores Ships		
137					D/45	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to load and join either ORAN or NAPLES Convoy.
138	SM-12	NAPLES	D/47	CYRIL	D/50	15 MT/Stores Ships 2 MT/Stores Ships (Civil Supplies)		Civil Supply ships ex ALEXANDRIA and carry wheeled vehicles and bagged wheat to join convoy at NAPLES.
139	AM-11	ORAN	D/45	CYRIL	D/50	10 MT/Stores Ships 1 Liberty Ship (Civil Supplies)	6133 Tons Civil Supplies	Civil Supply ship direct from USA to join convoy at ORAN
140					D/50	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to load and join either ORAN or NAPLES Convoy.
141	SM-13	NAPLES	D/52	CYRIL	D/55	10 MT/Stores Ships		
142	AM-12	ORAN	D/50	CYRIL	D/55	15 MT/Stores Ships		
143					D/55	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to load and join either ORAN or NAPLES Convoy.

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BIGOT - ANVIL

HQ 7TH ARMY - 30 July 1944

CONVOY PROGRAMME

PARA	CONVOY	SAILING FROM	SAILING ON	ARRIVING AT	ARRIVING ON	DESCRIPTION	MAINTENANCE	REMARKS
144	SM-14	NAPLES	D/57	CYRIL	D/60	15 MT/Stores Ships 2 MT/Stores Ships (Civil Supplies) 4 Mule Ships		Civil Supply ships ex ALEXANDRIA and carry wheeled vehicles and bagged wheat to join convoy at NAPLES
145	AN-13	ORAN	D/55	CYRIL	D/60	10 MT/Stores Ships 1 Liberty Ship (Civil Supplies)	6133 Tons (Civil Supplies)	Civil Supply ship direct from USA to join convoy at ORAN
146					D/60	5 Coasters	2 Coasters Dry 3 Coasters POL	Coasters to Load and join either ORAN or NAPLES Convoy.

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Ref No X-1343

HEADQUARTERS SEVENTH ARMY
APO 758

ANNEX NO. 10
to FO No. 1, "ANVIL".

31 July 1944

CHEMICAL PLAN

1. Chemical units previously attached to sub-task forces will be employed as directed by sub-task force commanders. Chemical Mortar Battalions or detachments thereof will be in direct support of attacking Infantry, providing 4.2 inch Chemical Mortar HE and WP fire. Chemical Decontaminating Companies or detachments thereof will be available for third and fourth echelon decontamination, and in addition, will be equipped to furnish smoke protection to beaches and/or small port installations.

2. Reserves, not sub-attached, to be employed as directed by the Commanding General, Seventh Army.

a. ____ Chemical Mortar Battalion (Mtz). (To be designated later).
b. Headquarters 22nd Chemical Smoke Generator Battalion.
c. 69th Chemical Smoke Generator Company.
d. 78th Chemical Smoke Generator Company.

3. Use of smoke for protection of beaches and small ports.

a. The decision to make smoke on beaches and in small ports will be made by the Beach Group Commander concerned in cooperation with the Navy Beachmaster. Orders to make smoke on beaches and in small ports will be issued by the Beach Group Commander concerned.

4. Use of chemical agents.

a. No toxic chemical munitions will be employed by this Force except by command of the Commanding General, Seventh Army.

b. Any use of toxic chemical agents by the enemy will be reported immediately to Headquarters, Seventh Army, by quickest possible means.

By Command of MAJOR GENERAL PATCH:

A. A. WHITE
Brigadier General, GSC
Chief of Staff

OFFICIAL:

JOHN S. GUTHRIE
Colonel, GSC
A. C. of S., G-3

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BIGOT-ANVIL

HEADQUARTERS SEVENTH ARMY
APO 758 US ARMY

AAW/JH/hr

Copy No. 122
Ref. No. X-1339

29 July 1944

ANNEX NO. 11

TO F.O. NO. 1 ANVIL

FIELD ARTILLERY ANNEX

MAPS: GSGS 2738, FRANCE, 1/250,000, Sheets 37, 38, 42, and 43.

1. Intelligence. See Annex 2 (Intelligence).

2. The artillery with the Army supports the operation.

3. a. INITIAL ALLOCATION OF ARTILLERY:

(1) Attached to VI Corps:

(a) U.S. units.

2nd FA Observation Bn
Hq & Hq Battery 6th FA Group
Hq & Hq Battery 17th FA Group
Hq & Hq Battery 35th FA Group
Hq & Hq Battery 36th FA Group
Hq & Hq Battery 405th FA Group
59th Armored FA Bn
69th Armored FA Bn
93rd Armored FA Bn
935th FA Bn (4.5" Gun)
17th FA Bn (155mm Howitzer)
141st FA Bn (155mm Howitzer)
634th FA Bn (155mm Howitzer)
933rd FA Bn (155mm Howitzer)
937th FA Bn (155mm Howitzer)
938th FA Bn (155mm Howitzer)
36th FA Bn (155mm Gun)
976th FA Bn (155mm Gun)
977th FA Bn (155mm Gun)
194th FA Bn (8" Howitzer)
Detachments of 575th FA Bn:
Naval Shore Fire Control Parties:
Parties #5, 6, 7, 8, and 9 to 3rd Inf Div.
Parties #14, 15, 16, 17, and 18 to 36th Inf Div.
Parties #23, 24, 25, 26, and 27 to 45th Inf Div.

Radio Operators for Naval Liaison Officers:
Team #1 to VI Corps Artillery
Team #2 to 3rd Inf Div
Team #3 to 36th Inf Div
Team #4 to 45th Inf Div

601st Tank Destroyer Bn (SP) (to 3rd Inf Div)
636th Tank Destroyer Bn (SP) (to 36th Inf Div)
645th Tank Destroyer Bn (SP) (to 45th Inf Div)
776th Tank Destroyer Bn (SP)

(b) French Unit:

Detachment 9e Regiment de Chasseurs d'Afrique
(for Combat Command of 1e DB)

(2) Attached to Armee "B":

(a) U. S. units:

Hq & Hq Battery 13th FA Brigade
1st FA Observation Bn

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Annex No. 11 to F.O. No. 1 ANVIL, Hq Seventh Army, Fld Arty Annex, 29 July 44.

Hq & Hq Battery 194th FA Group
Hq & Hq Battery 421st FA Group
601st FA Bn (75mm Howitzer, Pack)
939th FA Bn (4.5" Gun)
630th FA Bn (8" Howitzer)
995th FA Bn (8" Howitzer)
Detachment 575th FA Bn:

Radio personnel (to 13th FA Brigade)

(b) French Units:

101e Groupe d'Observation
102e Groupe d'Observation
Etat-Major du Groupement d'Artillerie #1
Etat-Major du Groupement d'Artillerie #2
Etat-Major du Groupement d'Artillerie #3
Etat-Major du Groupement d'Artillerie #4
Etat-Major du Groupement d'Artillerie #5
1e Groupe du 64e Regiment d'Artillerie (105mm Howitzer)
2e Groupe du 64e Regiment d'Artillerie (105mm Howitzer)
3e Groupe du 64e Regiment d'Artillerie (105mm Howitzer)
1e Groupe du 65e Regiment d'Artillerie (155mm Howitzer)
2e Groupe du 65e Regiment d'Artillerie (155mm Gun)
3e Groupe du 65e Regiment d'Artillerie (155mm Howitzer)
1e Groupe du 66e Regiment d'Artillerie (155mm Howitzer)
2e Groupe du 66e Regiment d'Artillerie (155mm Gun)
3e Groupe du 66e Regiment d'Artillerie (155mm Howitzer)
1e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
2e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
3e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
4e Groupe du Regiment d'Artillerie Coloniale du Levant (155mm Gun)
1e Groupe du Regiment d'Artillerie Coloniale de l'Afrique Occidentale Francaise (155mm Howitzer)
2e Groupe du Regiment d'Artillerie Coloniale de l'Afrique Occidentale Francaise (155mm Howitzer)
3e Groupe du Regiment d'Artillerie Coloniale de l'Afrique Occidentale Francaise (155mm Howitzer)
7e Regiment de Chasseurs d'Afrique (to 1e DMI)
8e Regiment de Chasseurs d'Afrique (to 3e DIA)
9e Regiment de Chasseurs d'Afrique (less detachment) (to 1e DB)
11e Regiment de Chasseurs d'Afrique (to 5e DB)
Regiment Coloniale de Chasseurs de Chars (to 9e DIC)
2e Dragons (to 2e DIM)

(c) British units:

9 Forward Observer Parties.

(3) Attached to 1st Airborne Task Force:

(a) U. S. units:

460th Parachute FA Bn (75mm Howitzer)
463rd Parachute FA Bn (75mm Howitzer)
602nd FA Bn (75mm Howitzer, Pack) (Temporary Glider Bn)

(b) British units:

2 Forward Observer Parties.

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Annex No. 11 to F.O. No. 1 ANVIL, Hq Seventh Army, Fld Arty Annex, 29 July 44.

(4) Attached to 1st Special Service Force:

Detachment 575th FA Bn:
Naval Shore Fire Control Parties #28, #29, #30.

(5) Attached to French Groupe de Commandos:

2 British Forward Observer Parties.

(6) Retained under Army control:

932nd FA Bn (8" Howitzer)
697th FA Bn (240mm Howitzer) (plus 2 sections 575th FA Bn (8" Gun))
698th FA Bn (240mm Howitzer) (plus 2 sections 575th FA Bn (8" Gun))
575th FA Bn (less Btry C) (8" Gun) (less detachments)
4th Depot Unit, Army (AAF)

b. Artillery with the VI Corps.

(1) Support VI Corps.

(2) Answer calls for fire from 1st A/B Task Force until VI Corps assumes control of that Force.

(3) Be prepared to support the II French Corps during the relief of the 3rd Division by that Corps.

(4) Be prepared to continue the support of the II French Corps with 2 battalions of Corps Artillery on order from the Army Commander.

(5) Report the location of safety limits for artillery fire to the Division Artillery Commander, 1st A/B Task Force, every two hours after H hour. This report must be brief, giving six-place coordinates of points defining a general line beyond which fire from A/B artillery may endanger troops of the VI Corps. Negative report is required.

c. Artillery with II French Corps.

(1) Support II French Corps.

d. Artillery with 1st A/B Task Force.

(1) Report the location of safety limits for Artillery fire to the Division Artillery Comma nder, 45th Infantry Division, every two hours after H hour. This report must be brief, giving six-place coordinates of points on a general line inclosing an area within which artillery fire may endanger friendly troops. Negative report is required.

(2) A/B Artillery will not fire beyond safety limits prescribed by VI Corps. Emergency targets beyond that line will be reported to Division Artillery Commander, 45th Infantry Division.

x. (1) (a) Naval Gunfire Support will be in accordance with Gunfire Support Plan, Annex B to Operations Plan 4-44, Naval Commander W.T.F. (extract attached as Annex 12 to F.O. 1).

(b) When any commander no longer needs naval gunfire support (or has advanced out of naval gun range), he will promptly notify the next higher headquarters, so that efficient redistribution of fire support ships may be accomplished.

(c) VI Corps be prepared to release those Naval Shore Fire Control Parties not composed of organic division personnel on Army order.

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(2) No fire will be delivered within safety limits prescribed by separate task force commanders except on call from the observers of the force concerned or on positively identified, observed enemy installations which threaten or hinder the advance. Initial safety limits are given as "No Fire Lines" on attached overlays (Incls 1 & 2 to Annex 11)

(3) (a) Yellow smoke shell will not be used by artillery.

(b) Red smoke shell will not be used for marking targets for bombing missions.

(c) Toxic chemical shells will not be used.

(4) (a) Supply of ammunition for all type weapons is critical. Allocations of ammunition will be made by this headquarters for 15-day periods until this situation is relieved. (See Par 3 b, Opns Memo No. 5)

(b) 155mm Howitzer, M1 and M1918: A supply of projectiles HE M102 with white bag propelling charge will be landed over each beach for use with the M1 howitzers. As soon as it becomes available, ammunition refills will be made from this type ammunition until 30% of basic load has been reached. This percentage w ill be maintained thereafter.

(5) (a) Photo reconnaissance. See Annex No. 2 (Intelligence)

(b) Corps and Division Artillery Commanders will submit daily requests, through G-2 channels, to Ass't Chief of Staff, G-2, Army, for Tac R missions and for observation by fighter aircraft of artillery fires. Requests will be submitted by 1900 on the day prior to the day on which the mission is to be flown. Army Artillery Officer will be informed, through artillery channels, of artillery missions requested. Emergency missions may be requested at any time, following the above procedure.

(c) Corps Arty Commanders will be notified by the Army Arty Officer the number of missions allotted for observation of artillery fires by fighter aircraft and the A.C. Sqdn. which will perform these missions. Details of communications and briefing will be arranged directly between the A.C. Sqdn. and the Corps Artillery.

(d) Air O.P. observation within Divisions and their attached Field Artillery units will be coordinated by the Division Artillery Air Officers during the initial phase of the assault. When the attached battalions revert to Corps Artillery control the Corps Artillery Air Officer will coordinate Air O.P. observation of these battalions through the Group Air Officers. The Division Artillery Air Officers will continue the coordination of Air O.P. observation within their Divisions.

(6) (a) For distribution of maps and mosaics, see Annex No. 6, Engineer, and Annex No. 2, Intelligence.

An annotated, uncontrolled Beach Mosaic, 1/10,000, will be distributed to assault artillery units.

An uncontrolled mosaic, 1/25,000, will be distributed to all artillery units.

Distribution of air photos will be by Corps, through PRU agencies.

(b) (1) All artillery survey will be based on the "old" Triangulation of France, "Trig Lists" for which will be distributed initially to FA Observation Battalions and Division Artillery Hq.

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(2) When operating with maps containing both the LAMBERT ZONE II (red) and the NORTH ITALY ZONE (brown) grids, either grid may be extended into the zone of the other by connecting the ticks on the border of the map, and coordinates read from the desired grid. However, when a point is designated to other than the originating unit, the coordinates will be read from the printed grid and not from an extended grid.

(7) Meteorological Information: Field Artillery Observation Battalions will send metro messages to Div Arty Headquarters and Corps Arty Battalions. An A.C. mobile weather unit will be ashore by D + 3 or D + 4 and will broadcast "Temperature Density Messages" on a frequency of 4145 KC. Messages from radio sonde observations taken on Corsica will be re-broadcast at 0400Z and at 1600Z. Predictions will be broadcast at 0530Z, 1130Z, 1730Z, and 2330Z. These messages will not be encoded.

(8) When not needed in their primary role, Tank Destroyers may be used in their secondary roles; as artillery to reinforce the fires of the organic artillery, or as assault artillery to furnish direct fire support for the infantry.

4. a. Ammunition resupply - see Annex No. 4 to Administrative Instructions No. 1, Headquarters Force 163, dated 20 June 1944, Section III, paragraph 3 b (1). When excess level is authorized, unit commanders will be responsible for its protection and evacuation. If ammunition must be abandoned by reason of displacement, notify the ASP or Army Ammunition Office, at once, the location and amount of abandoned ammunition and whether the unit can return for it. In all possible cases resupply will be made from abandoned ammunition until stock is exhausted.

b. Naval Shore Fire Control Parties and all other units using special equipment during the assault will be prepared to turn this equipment in promptly when called upon to do so.

5. Signal Communications.

a. Normal radio nets - see Training Memorandum No. 1, Seventh Army.

b. Communications between artillery units and high performance aircraft - SCR 542.

c. A/B - seaborne artillery communications, see SOI and Signal Plan, 1st A/B Task Force.

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brigadier General, GSC,
Chief of Staff.

OFFICIAL:

/s/ John S. Guthrie

JOHN S. GUTHRIE,
Colonel, GSC,
A.C. of S., G-3.

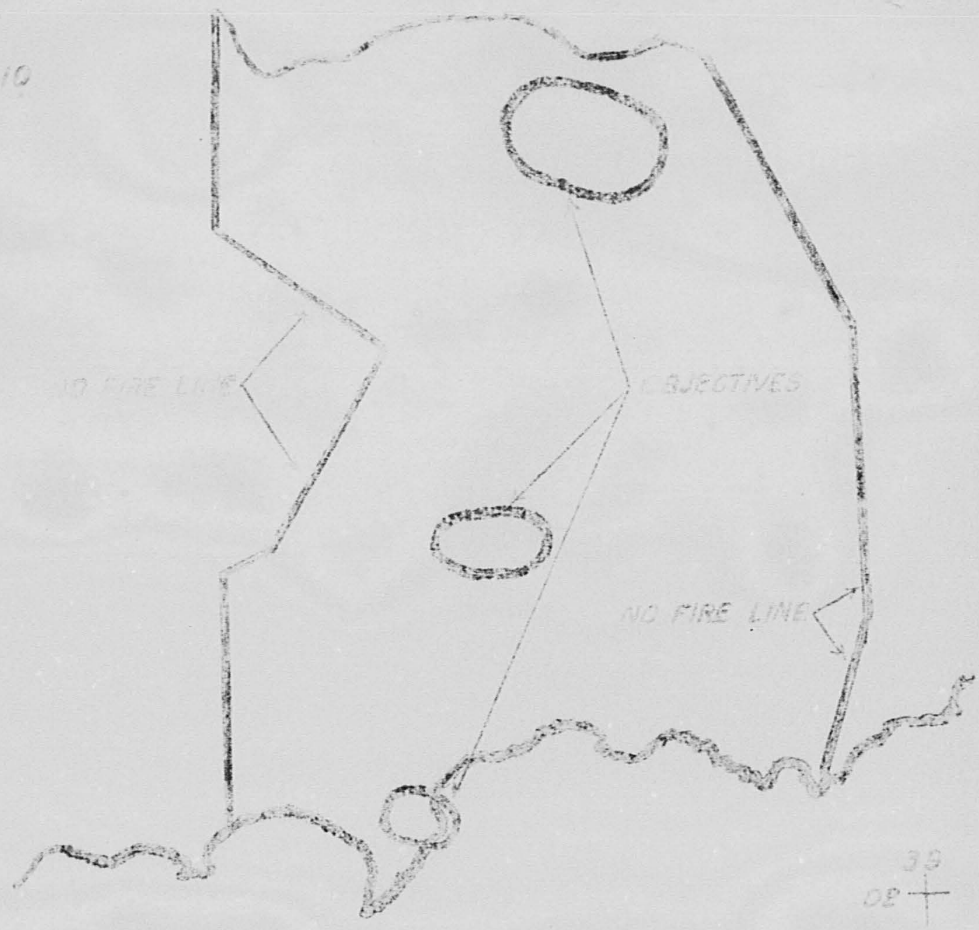
2 INCLOSURES:
#1 - No Fire Line, ROMEO Force
#2 - Bomb Line and No Fire Line, RUGBY Force

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LEGEND:

Incl No. 1 to Annex 11 Field Artillery Plan

NO FIRE LINE ROMEO FORCE

Overlay Scale: 1:50,000
Map Sheets: XXXIV-45
XXXV -45
XXXIV-46
G.S.G.S. 4471

Boundaries:

West Boundary: CAVALIERE Station - 324052 - 328054 - 339073 - Ste. MARIE - 324106

North Boundary: 1 km. North of Road BORMES-COGLIN

East Boundary: Sharp turns on road North of POINTE DE LA CHAPPE - hairpin bend at 385047 - MALATRA - LES PRADELS - 371101 (North of LA MOLE ROAD).

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LEGEND:

Incl No. 2 to Annex II, Field Artillery Plan

BOMB LINE AND NO FIRE LINE RUGBY FORCE

Overlay Scale 1:100,000

Map Sheet 15 Q
G.S.G.S. No. 4249

Boundary: Hill (477463)
Crossroad Southwest of TERRISSOLLE (380467)
Crossroad Southwest of DRAGUIGNAN (304427)
Powerline Crossing at FIRMEYE RIVER (295385)
Hill (428295)
Road Junction Southeast of ROCHEFUNE-SUR-ARCENS (491360)

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Copy No 119

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HEADQUARTERS SEVENTH ARMY
APO # 758

29 July 1944

ANNEX NO. 12
To F.O. NO. 1 ANVIL-

For information of Army units, extracts are quoted from:

ANNEX "B" TO OPERATION PLAN 4-44

OF

NAVAL COMMANDER, WESTERN TASK FORCE

GUNFIRE SUPPORT PLAN

The extracts follow:

"Task Organization.

SUPPORT FORCE - Rear Admiral Davidson, USN.

(a) ALPHA Gunfire Support Group, Rear Admiral Mansfield, R.N.

Battleships.

RAMILLES		1 OBB

Heavy Cruisers.

QUINCY	2 VOS	1 CA

Light Cruisers.

ORION (F) AURORA AJAX BLACK PRINCE GLOIRE	5 CL

Destroyers.

BRITISH	2 DD
UNITED STATES	4 DD

LCF.

LCF 4, 6.	2 LCF

LCG.

LCG 4, 8.	2 LCG
LCT(R)	10 LCT(R)

(b) DELTA Gunfire Support Group, Rear Admiral Bryant, USN.

Battleships.

NEVADA	2 VOS	
TEXAS (F)	2 VOS	2 OBB

Light Cruisers.

PHILADELPHIA	2 VOS
GEORGE LEYGUES (F)	Rear Admiral Jaujard, F.N.
MONTCALM	3 CL

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French Destroyer/Leaders

LE FANTASQUE LE TERRIBLE LE MALIN	3 DL

Destroyers.

UNITED STATES	8 DD

LCF.

LCF 10, 14.	2 LCF

LCG.

LCG 12, 14.	2 LCG
LCT(R)	6 LCT(R)

(c) CAMEL Gunfire Support Group, Rear Admiral Deyo, USN.

Battleships.

ARKANSAS	1 OBB

Heavy Cruisers.

TUSCALOOSA (F)	1 CA

Light Cruisers.

BROOKLYN 2 VOS OMAHA 2 VOS ARGONAUT DUGUAY TROUIN EMILE BERTIN	5 CL

Destroyers.

UNITED STATES	11 DD

LCF.

LCF 16, 17.	2 LCF

LCG.

LCG 20.	1 LCG
LCT(R)	14 LCT(R)

(d) SITKA Gunfire Support Group, Rear Admiral Davidson, USN.

Battleships.

LORRAINE	1 OBB

Heavy Cruisers.

AUGUSTA (F)	1 CA

Light Cruisers.

DIDO	1 CL

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Destroyers.

BRITISH	1 DD
UNITED STATES	2 DD

RESERVES:

CINCINNATI
MARBLEHEAD
JEANNE D'ARC
SIRIUS
Gunfire Support Group Units released from other forces."

"1. Information.

*** *** ***

(d) The British Grid System will be used for the purpose of naval gunfire. Attention is directed to that portion of the assault area where the Brown and Red grid join. To avoid misunderstanding, targets designated in this area must be specified by Grid color and small square letter in addition to coordinates. Furthermore, it must be noted that grid lines do not run true North-South, East-West."

*** *** ***

"2. Gunfire Support Groups will furnish preassault bombardment of prearranged targets and supporting fire as required during the assault and follow up in order to assist ground and airborne troops in landing and in advancing to prescribed objectives."

"3. (a) ALPHA Gunfire Support Group.

(b) DELTA Gunfire Support Group.

(c) CAMEL Gunfire Support Group.

(1) Execute preliminary phased fire support missions as directed by Attack Force Commanders on following basis:

Phase I.

H-70	Begin naval bombardment.
H-60 to H-30	Suspend firing upon receipt of information of arrival of heavy bombers in the assault area, or upon observing arrival, whichever is the earliest.

Phase II.

H-50 to H-20	Resume bombardment ten (10) minutes after heavy bombers have completed mission, or sooner if air spotters report able to see targets.
H-Hour	Lift gunfire to flanks of assault beaches.

(2) Use Spotting Officers in LCC as feasible to observe and control close supporting fire on beaches prior to and during the touchdown.

(3) During preliminary aerial bombardment execute counter-battery fire only if directed by Attack Force Commanders."

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"(d) SITKA Gunfire Support Group.

(1) Execute fire missions in support of the SITKA Military Units as directed by the SITKA Attack Force Commander."

"(X) (1) Spotting agencies (FOBs, Shore Fire Control Parties, Artillery Aerial OPs, Naval Aircraft, and Tactical/Reconnaissance Aircraft) furnish adequate description of targets on which fire has been requested. Keep fire support ships advised of positions of own front lines when feasible by use of Combined Assault Code. Use Mediterranean Bombardment Code to indicate type of target, and type of fire required. Use Combined Assault Code when informing fire support ships of prospective movements of own troops.

*** *** ***

(6) Fire Support Group Commanders may direct a shift from a prearranged target to a target of opportunity.

(7) Shore bombardment may be reduced as necessary to repel enemy air, submarine, or surface attack on fire support ships or transport area. If such reduction is necessary, fire support ship concerned will advise spotting agencies.

*** *** ***

(12) All spotting agencies and Fire Support Ships use Mediterranean Bombardment Code. Use frequencies assigned in Communication Annex.

(13) United States Naval Gunfire Liaison Officers will revert to Naval Command upon order from Commander Support Force.

(14) LCS(S) and other craft designated by Attack Force Commanders will support the leading assault wave and Combat Demolition Units."

*** *** ***

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brig. Gen., USA,
Chief of Staff.

OFFICIAL:

JOHN S. GUTHRIE,
Colonel, G.S.C.,
A. C. of S., G-3.

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HEADQUARTERS SEVENTH ARMY
A.P.O. 758 U.S. ARMY

3 August 1944

Copy No. 122

Ref. No. X-1392

ANNEX NO. 4
To F.O. No. 1

AMENDMENT NO. 1

CONVOY PLAN

1. The following are changes in the Convoy Plan dated 30 July 1944:

Para 1 and 2	Column 3	Change from D + 4 to D - 4
" 3 and 4	" 3	" " D - 3 to D - 2
" 5	" 3	" " D - 3 to D - 2
" 7	" 3	" " D - 3 to D - 2
" 12 and 13	" 3	" " ? to D - 4
" 14	" 3	" " D - 5 to D - 3
" 15	" 3	" " D - 5 to D - 3
" 37	" 3	" " D + 53 to D + 52
" 38	" 3	" " D + 58 to D + 57
" 39	" 3	" " D + 63 to D + 62
" 56	" 3	Insert D + 20
" 60	" 3	Change from D + 37 to D + 35
" 83	" 3	" " D + 3 to D + 13
" 20	" 6	" " 5 Pers Ships to 4 Pers Ships
26	" 8	Insert GENERAL SQUIER, JAMES PARKER,
32		SANTA ROSA, MARINE ROBIN.
" 72	" 6	Delete "Mule Ship, CHATEAU LATOUR".
	" 7	Delete "200 Animals"
" 111	" 4	Change from ALPHA to DELTA
	" 6	" " 140 to 58 ".
	" 6	" " JOHN SARGEANT to WILLIAM MOULTRIE
	" 6	Change from OLIVER PERRY to LUCRETIA MOTT
" 115	" 6	Add "Mule Ship, CHATEAU LATOUR" immediately under "8 MT/Stores Ships".
	" 7	Add "200 Animals" immediately under "Approx 13,000 tons".
" 37	" 6	Change from 5 Pers Ships to 4 Pers Ships
	" 8	Insert GENERAL SQUIER, JAMES PARKER, SANTA ROSA, MARINE ROBIN.

By Command of Major General PATCH:

ARTHUR L. WHITE
Brig.Gen.U.S.A.
Chief of Staff.

OFFICIAL:

Oliver C. Harvey

OLIVER C. HARVEY,
Colonel, G.S.C.,
A. C. of S., G-4.

[redacted] SECRET BIGOT - DRAGOON

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Ref. No. X-1406 SECRET BIGOT ANVIL

Copy No. 122 HEADQUARTERS SEVENTH ARMY
APO 758

ANNEX NO. 5
TO F.O. #1 ANVIL 4 August 1944

MAP: FRANCE, 1/100,000

AIR SUPPORT PLAN

I. GENERAL MISSIONS

The general missions of the Air Forces in Operation "ANVIL" are:

a. To neutralize the enemy air forces on the ground and in the air.
b. To disrupt enemy communications, and retard the movement of enemy reserves both strategic and tactical, into the assault area.
c. To attack selected specific defense installations in the assault area.
d. To destroy submarine pens and sink prepared block ships in TOULON harbor.
e. To provide air cover over the assault area and shipping within 40 miles of it.
f. To provide close air support to the ground forces taking part in the operation.

II. Operations of XII TAC and other units of MATAF in support of Operation "ANVIL"

PHASE I: Prior to D Day.

1. To conduct strong counter-air force operations against the enemy in the PO Valley and the South of FRANCE.

2. To block and keep blocked all enemy lines of communication between Northern ITALY and Southern FRANCE.

3. To destroy all rail bridges across the RHONE River, South of VALENCE.

4. To destroy selected coastal batteries between GENOA and SETE.

5. To destroy selected radar stations between GENOA and SETE.

6. To conduct air operations in support of the cover plan. As an incident to this cover plan to destroy the guns on the Ile Du LEVANT.

PHASE II: D Day Prior to H Hour.

1. To cause maximum destruction to enemy coastal and beach defenses within the assault area with all forces available.

2. The following target priority will be followed:

a. Counter battery attacks, coordinated with Naval gunfire, on enemy artillery that can be brought to bear on shipping of any type in the assault area.
b. Enemy guns and other military installations which bear directly on the ability of our ground forces to advance over the beaches.
c. Enemy light artillery and other military installations that are capable of delaying the planned "D" day advance in general.
d. Destruction of any enemy airdromes operational in or within close fighter operating range of the assault area.

3. PLAN OF ATTACK

a. Guns firing from 0550 to 0610B. (See General Instructions, sub-paragraph f.)

AO No.	TARGET	T.O.T. (All times B Time)	ESTIMATED FORCE
1	Any guns firing in area S-2550 to S-3159 to S-5060 (S-256528)	From 0550 to 0610	4 F/B Sorties
2	Any guns firing in area S-2353 to S-2450 to S-5831 to U-5636 (U-214512)	From 0550 to 0610	4 F/B Sorties
3	Any guns firing in area U-5831 to U-5636 to U-5320 to U-4823 (U-531252)	From 0550 to 0610	4 F/B Sorties
4	Any guns firing in area U-4823 to U-4117 to U-4414 to U-5418 (U-518176)	From 0550 to 0610	4 F/B Sorties

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AO No.	TARGET	T.O.T. (All times B time)	ESTIMATED FORCE
5	Any guns firing in area U-5416 to U-5015 to U-5008 to U-5408 (U-516103)	From 0550 to 0610	4 F/B Sorties
6	Any guns firing in area U-4610 to U-5205 to U-3708 to U-3002 (U-412052)	From 0550 to 0610	4 F/B Sorties
7	Any guns firing in area U-2905 to Z-3296 to Z-2095 to U-2002 (Z-276956)	From 0550 to 0610	4 F/B Sorties
8	Any guns firing in area Z-1904 to Z-1004 to Z-1099 to U-2001 (Z-121088)	From 0550 to 0610	4 F/B Sorties

b. Coastal Defense Guns, Primary Targets.

A.O.	TARGET	LOCATION	DESCRIPTION	MISSIONS	EACH MISSION'S NO. & TYPE A/C	TIME ON TARGET	BOMB LOA
9	M-18	Z-276956	4-120CD	3	4 F/B	0615 0640 0655	Incendiary
				3	6 M/B	0650 0710 0725	Incendiary/
10	L-24-25	Z-121888	2-105CD	2	4 F/B	0620 0635	Incendiary
			2-155CD	3	6 M/B	0655 0715 0725	Incendiary/
11	P-34	U-546259	3-220CD	3	4 F/B	0610 0625 0645	Incendiary
				3	6 M/B	0650 0710 0725	Incendiary/
12	N-42	U-497171	4 Howz CD	1	4 F/B	0630	Incendiary
				3	6 M/B	0650 0700 0720	Incendiary/
13	P-63	S-205513	5-150CD	3	4 F/B	0610 0630 0650	*2 x 1000
				3	6 M/B	0705 0715 0730	Frag/Demo
14	O-25	S-236526	6 DP	2	4 F/B	0615 0640	Incendiary
				3	6 M/B	0700 0710 0725	Incendiary/
15	O-06	S-274542	4 DP	1	4 F/B	0620	Incendiary
				3	6 M/B	0655 0705 0720	Incendiary/
16	N-23	U-496122	4-105 DP	2	4 F/B	0620 0640	*2 x 1000
				3	6 M/B	0655 0710 0725	Frag/Demo
17	L-30	Z-185869	4-164CD	5	4 F/B	0610 0625 0640 0700 0715	Incendiary
18	P-39	U-522180		6	4 F/B	0610 0620 0640 0655 0710 0725	Incendiary
19	P-47	U-523179	5-220 CD	5	4 F/B	0615 0620 0625 0655 0725	Incendiary
20	P-48	U-525177		5	4 F/B	0610 0615 0625 0640 0710	Incendiary
21	N-12	U-441188	4-150 ?	5	4 F/B	0620 0635 0650 0705 0720	*2 x 1000
22	N-13	U-442106	2-Lt CD	3	4 F/B	0640 0655 0725	*2 x 1000
23	P-28	U-599365	4-105 CD	4	4 F/B	0615 0630 0645 0700	*2x 1000
24	O-37	S-263538	2-Lt CD	3	4 F/B	0620 0650 0710	*2 x 1000
25	O-38	S-223510	2-Lt CD	3	4 F/B	0615 0635 0700	*2 x 1000
26	O-39	S-225515	2-Lt CD	3	4 F/B	0610 0625 0655	*2 x 1000
27	O-04	S-230527	4-Lt CD (u)	2	4 F/B	0625 0645	*2 x 1000
28	O-40	S-240527	2-CD	2	4 F/B	0630 0650	Incendiary
29	O-03	S-214518	4-CD (u)	3	4 F/B	0620 0700 0720	*2 x 1000
30	P-40	U-516092	4-150 CD	6	4 F/B	0610 0625 0640 0655 0710 0725	*2 x 1000
31	N-15	U-440178	2-MCD	6	4 F/B	0615 0630 0645 0700 0715 0730	Incendiary
32	P-29	U-601337	4-Lt CD	3	4 F/B	0650 0710 0725	*2 x 1000
33	P-30	U-604337	2-Lt CD (u)	3	4 F/B	0630 0700 0720	*2 x 1000

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A.O.	TARGET	LOCATION	DESCRIPTION	MISS-IONS	EACH MISSION'S NO. & TYPE A/C	TIME ON TARGET	BOMB LOADS
(continued)							
34	Q-07	S-334692	4-149 (u)	3	4 F/B	0655 0715 0730	*2 x 1000
35	P-41	U-521165	4-CD How.	3	4 F/B	0650 0705 0720	*2 x 1000
36	M-17	U-448107	4-CD How.	5	4 F/B	0630 0645 0700 0715 0730	*2 x 1000
37	N-19	U-500156	2-Lt CD (u)	3	4 F/B	0650 0705 0720	*2 x 1000
38	L-43-44	Z-135998	4-150 CD 2-?	2	6 M/B	0710 0730	Incendiary/ Demo

* 2 x 1000 pound bombs where condition of runway, experience of pilots, and daylight take-offs permit. Missions taking off before 0600 will carry 2 x 500 pound bombs.

c. Beach Defenses. Primary Targets.

AO NO.	TARGET		T.O.T.	ESTIMATED FORCE
39	B each 259	U-415066	between 0700 and 0730	180 B-26
40	Beach 261	U-513125	between 0700 and 0730	120 M/B
41	Beach 263A	U-510255	between 0700 and 0730	40 M/B
42	Beach 263B	U-512240	between 0700 and 0730	40 M/B
43	Beach 263C	U-520250	between 0700 and 0730	40 M/B
44	Beach 264B	S-210515	between 0700 and 0730	40 M/B
45	Beach 265A	S-256523	between 0700 and 0730	124 B-25

d. Gun Positions.

AO NO.	TARGET	LOCATION	DESCRIPTION	MISS-IONS	EACH MISSION'S NO. & TYPE A/C	T.O.T.	BOMB LOAD
46	L-27	Z-152855	2 CD	1	4 F/B	0635	Incendiary
47	L-29	Z-170854	4-155	1	4 F/B	0645	Incendiary
48	P-19	U-529334	2 Lt. F/D	1	4 F/B	0645	Incendiary
49	M-36	U-256032	4-CD	1	4 F/B	0705	*2 x 1000
50	P-17	U-514340	4-F/D	1	4 F/B	0705	*2 x 1000
51	N-10	U-439122	4-Lt CD	1	4 F/B	0715	*2 x 1000
52	P-37	U-533256	4-CD	1	4 F/B	0730	*2 x 1000
53	M-27	U-402163	2-Lt CD	1	4 F/B	0730	Incendiary

e. Coastal Defense Guns, alternate targets.

(1) Specific Assignment.

(a) The following missions will be assigned a special alternate target (M-28, consisting of 2 or 4 heavy Coastal Defense guns at U341026). This target may be seized by Commandos, and will therefore not be attacked unless specifically directed by Headquarters Ship. Headquarters Ship will call the designated missions, when airborne, by their AO number.

AO No.	PRIMARY TARGET T.O.T.	FORCE	ALTERNATE TARGET
AO 30	0610	4 F/B	
AO 16	0620	4 F/B	U 341026
AO 36	0630	4 F/B	
AO 31	0645	4 F/B	

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(b) The following missions will be assigned alternate targets as indicated:

AO No.	TIME	FORCE	TARGET	DESCRIPTION	LOCATION
13	0610	4 F/B	P-53	4-75 CD	U-515141
17	0625	4 F/B	H-35	4-CD	U-441076
22	0640	4 F/B	H-29	4-CD	U-391041
33	0700	4 F/B	O-33	4-155 CD	S-340702
32	0710	4 F/B	H-24	CD (u)	U-405066
29	0720	4 F/B	I-26	3-75 CD	Z-124687

(2) General Assignment.

(a) All other F/B and medium bomber missions will be assigned one of the following strong points for an alternate target:

1. U-516103
2. U-510220
3. U-510233
4. U-516245
5. U-531252
6. U-505345
7. S-214512
8. S-256528
9. S-257532
10. S-259535
11. S-276543
12. U-412052
13. U-518176
14. U-439156
15. U-559307
16. U-559321

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f. GENERAL INSTRUCTIONS.

(1) AO's 1 - 8 inclusive will arrive at designated area at 0550 and will bomb any gun flashes seen in their immediate vicinity between 0550 and 0610. If no flashes seen by 0610, they will bomb designated strong points as alternate, 16 of these a/c will remain on low cover patrol of 8 in Apple Area, 8 in Cherry Area. At 0615 they will come under control of the Fighter Director Ship.

(2) AO's 8 - 38 inclusive will leave 16 a/c on patrol to relieve above 16, 8 on each patrol area as listed above. At 0650 they will come under control of Fighter Director Ship.

(3) AO's 8 - 38 inclusive will leave a further 16 a/c on patrol to relieve the above 16 of para. 2, 8 on each patrol area as listed above. At 0730 they will come under control of Fighter Director Ship.

(4) (a) 8 Navy F/B (fighter-bomber) will be on call at 0730, and 8 R/P (rocket projectile plane) on call at 0800.
(b) 16 XII Tactical Air Command F/B will be on call at 0800.

4. Fighter Cover. In addition to fighter-bomber effort and escort of Medium Bombers, XII T.A.C. fighters will maintain standing patrol over the beaches beginning at 0550 on D-Day. A patrol of 6 additional Spitfires will be furnished between 0600 and 0800 hours on D-Day as additional low cover over the assault area. See XII T.A.C. Operations Order No. 1.

5. Tac/R and Naval Spotting. Tac/R and Naval spotting a/c will be in the assault area from 0635 on D-day on. See XII T.A.C. Operations Order No.1.

6. Troop Carrier Cover.

a. 36 Spitfires of XII Tactical Air Command will furnish area cover between the northern tip of Corsica and the Italian mainland between 0550 and 0645 on D Day to protect the end of the Troop Carrier formation returning to Italian bases.

b. 4 Beaufighter sorties supplied by H. A. C. A. F. will furnish continuous area cover for Airborne Operations between the Italian mainland and the dropping point in "ANVIL" between the hours of 0300 and 0600 on D-Day.

7. Area of Bombing.

a. Defenses within beaches are considered nearly uniform on a per yard basis.

b. Beaches will be bombed to a depth of 400 yards by Heavy and Medium Bombers. Beach 265 A, being only 80 yards long will be bombed approximately 450 yards on each side, where defenses similar to beach defenses exist.

8. Bomb Loadings.

a. Beach Defenses
(1) Fragmentation or demolition bombs of weights not exceeding 260 pounds will normally be used.
(2) If necessary, because of insufficient supply of bombs of above categories, 500 pound bombs may be used to complete loads of the full force.
(3) Instantaneous fuses will be employed whenever possible. In no case will fuses other than instantaneous be used on demolition bombs larger than 100 pounds.
(4) No phosphorous or incendiary bombs will be employed against beach defenses.

b. Gun Positions
(1) Incendiary bombs (not white phosphorous) may and should be employed against certain gun positions as indicated in SECTION II, PHASE II above.
(2) Against gun positions not specifically cleared for incendiaries only large demolition bombs with short-delay fuses will be used.

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9. All missions will avoid the areas CAPE NEGRE, ILE LEVANT, PORT CROS, and the paratroop drop area, where commando and paratroop operations are taking place on the night D-1/D. Special bomblines will be issued in advance for these areas. All missions will insure that all crews are thoroughly briefed on those points so that faulty navigation does not result in mistaking them for target locations that may appear similar.

10. Summary

a. The implementation of this Phase will involve approximately:

12 Heavy Bomb Groups	- 15th Air Force
7 Medium Bomb Groups	- M.A.T.A.F
408 Fighter/Bomber Sorties	- XII T.A.C
120 Fighter Sorties	- XII T.A.C (Plus standing patrols)
8 Night Fighter Sorties	- (Plus standing patrols)
48 Fighter/Bomber Sorties	- C.T.F. 88 (Plus 16 Standby-Sorties)

b. Considerable flexibility to meet changes in enemy disposition or the tactical situation is retained through the method of scheduling Fighter/Bomber effort.

PHASE III: D Day after H Hour.

1. The purpose of this phase is:

a. To cause maximum destruction of enemy coastal and beach defenses within the assault area.

b. To isolate the battlefield area by the destruction of rail and road bridges across the RHONE - ISERE - DURANCE Rivers, and by blocking of defiles and rail lines running thru the ALPS from the ISERE southward.

c. To attack any troop movements within the tactical area.

d. Neutralization of any enemy airdromes operational or within close fighter range of the assault area.

e. To provide close air support to ground forces, on call.

2. Target Priority:

a. Up to H + 6½ hours the maximum fighter bomber effort will be directed against:

(1) Enemy artillery that can be brought to bear on shipping of any type in the assault area. This counter battery will becoordinated with Naval gunfire.

(2) Enemy guns and other military installations which bear directly on the ability of our ground forces to advance over the beaches.

(3) Enemy light artillery and other military installations that are capable of delaying the advance in general.

b. After H + 6½ hours, guns still threatening shipping or the ground forces will be attacked, but the bulk of the fighter/bomber effort will be diverted to armed reconnaissance beyond the armed reconnaissance line to attack any troops or vehicle concentrations moving into the assault area. Alternate targets will be the DURANCE River bridges.

c. The balance of heavy bombers not employed on the beaches, plus a turn around of all medium bomber groups will be employed on the bridges set forth in paragraph 1 b, supra.

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3. PLAN OF ATTACK.

a. From "H" Hour balance of "D" Day.

(1) Heavy Bombers - 9 Groups.

AERIAL OBJECTIVE NUMBER	TARGET NUMBER	LOCATION	DESCRIPTION	NO. OF MISSIONS	ESTIMATED NUMBER & TYPE A/C	TOT	BOMB LOAD
AO-501	264 A	From U-566332	Beach 264 A	1	30 H/B	1230-1245	Frag &
AO-502	264 A	To U-585345	Beach 264 A	1	30 H/B	1245-1300	Demo-lition Not to Exc
AO-503	264 A	From U-570340 To U-561351	Road from Beach 264 A to Frejus	1	30 H/B	1220-1300	260
AO-504	A	N-850204	Pont St Esprit road bridge	1	30 H/B	1300	demo-liti on
AO-505	B	N-880419	Donzere Pont du St Fusselue Road Bridge	1	30 H/B	1330	"
AO-506	C	N-878450	Viviers Road Bridge	1	30 H/B	1415	"
AO-507	D	N-871528	Latiel Road Bridge	1	30 H/B	1445	"
AO-508	E	O-010957	Valence Road Bridge	1	30 H/B	1530	"
AO-509	F	N-843325	Bourg St Andeol Road Bridge	1	30 H/B	1600	"

(2) Medium Bombers - 7 Groups

AO-510	G	O-875175	* Sisteron (RR Bridge (Rd Bridge	1	36 M/B	1600	Demo-lition
AO-511	H	S-844559	Arles Road Bridge	1	36 M/B	1615	"
AO-512	J	S-892797	Aramon Road Bridge	1	36 M/B	1615	"
AO-513	G	O-890175	** Sisteron (Bridge in AO 510) (Rd Bridge AO 510)	1	36 M/B	1615	"
AO-514	K	S-949997	Roquemaure Road Bridge	1	36 M/B	1615	"
AO-515	L	S-862699	Terascon Road Bridge	1	36 M/B	1630	
AO-516	M	S-978864	Avignon Road Bridge	1	36 M/B	1630	"

* ½ effort on RR Bridge, and ½ on Road Bridge, both over the BUECH RIVER.

** 2/3 effort on road bridge over DURANCE RIVER, and 1/3 effort on either bridge in AO-510 not out.

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(3) Gun Positions and Rail cuts for Carrier Task Force.

.ERIAL OBJECTIVE NU.BER	TARGET NUMBER	LOCA.ION	DESCRIPTION	NO. OF MISSIONS	ESTIM.TED NUMBER & TYPE A/C	TOT	BOMB LOAD
.O-517	N-23	U-496122	4 C.D.	1	4 F/B	0800	2 x 500
.O-518	N-32	U-484104	4 C.D.	1	4 F/B	0800	2 x 500
.O-519	20	U-441118	2 C.D.	1	4 R/P (F/B)	0830	2 x 500
.O-520	P-39	U-523179	2 C.D.	1	4 R/P (F/B)	0830	2 x 500
.O-521	P-47	U-522180	1 C.D.	1	4 F/B	0900	2 x 500
.O-522	N-17	U-488107	4 C.D.	1	4 F/B	0900	2 x 500
.O-523	P-48	U-525177	1 C.D.	1	4 R/P (F/B)	0930	2 x 500
.O-524	N-42	U-497171	4 C.D. How.	1	4 R/P (F/B)	0930	2 x 500
.O-525	P-30	U-604336	2 C.D. Lt.	1	4 F/B	1000	2 x 500
.O-526	P-28	U-599365	4 C.D.	1	4 F/B	1000	2 x 500
.O-527	Sisteron (O-8918) to Portius (T-5957)	Railcuts		2	8 R/P	1200, 1330	
.O-528	Portius (T5957) to .ix (T5141)	Railcuts		1	8 R/P	1430	
.O-529	.ix (T5141) to (T-6036)	Railcuts		2	8 R/P	1600, 1800	
.O-530	.vignon (S-9787) Miramus (T-1546)	Railcuts		1	8 F/B	1830	2 x 500
.O-531	.rles (S-8557) to Miramus (T-1546)	Railcuts		1	8 R/P	1900	
.O-532	Meyrargues (T-5854) to Darquignan (U-3147)	Railcuts		2	8 F/B 8 R/P	1930 2000	2 x 500

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(4) Gun Positions to be attacked by P-38's and P-47's who then go on patrol over the beaches.

AERIAL OBJET-IVE NO.	TOT. NO.	LOCATION	DESCRIPTION	No. of MISS-IONS	No. & TYPE A/C	T.O.T.	PATROL AO NUMBERS	BOMB LOAD
AO-533	N-08	U-502220	4 D.P.	1	6 P-38	0755	303	2 x 1000
AO-534	P-37	U-533258	4 C.D.	1	6 P-38	0755	303	2 x 1000
AO-535	Q-38	S-222509	2 C.D. Lt.	1	4 P-47	0805	104	2 x 1000
AO-536	Q-25	S-236526	6 C.D.	1	4 P-47	0805	104	2 x 1000
AO-537	P-34	U-546259	3 C.D.	1	4 P-47	0805	204	2 x 1000
AO-538	P-20	U-545303	4 C.D.	1	4 P-47	0805	204	2 x 1000
AO-539	N-10	U-439121	(?) C.D.	1	4 P-47	0850	105	Incendiary
AO-540	N-27	U-402163	2 Field	1	4 P-47	0850	105	Incendiary
AO-541	N-20	U-465190	2 C.D.	1	4 P-47	0850	205	Incendiary
AO-542	N-15	U-448178	2 C.D. Med.	1	4 P-47	0850	205	Incendiary
AO-543	P-56	U-514336	4 C.D. Med.	2	6 P-38	0910 1210	304 306	Incendiary
AO-544	21	U-507376	4 C.D. Lt.	2	6 P-38	0910 1210	304 306	Incendiary
AO-545	22	U-575394	4 C.D. Lt.	1	4 P-47	0935	106	2 x 1000
AO-546	P-15	U-554370	4 C.D.	1	4 P-47	0935	106	2 x 1000
AO-547	N-29	U-287014	4 C.D. Lt.	2	4 P-47 6 P-38	0935 1510	206 308	Incendiary 2 x 1000
AO-548	N-18	Z-276958	4 C.D.	2	4 P-47 6 P-38	0935 1510	206 308	Incendiary 2 x 1000
AO-549	23	U-529372	4 C.D. Med.	1	4 P-47	1020	107	Incendiary
AO-550	P-19	U-529334	2 Fld.	1	4 P-47	1020	107	Incendiary
AO-551	M-38	U-362095	3 C.D.	1	4 P-47	1020	207	2 x 1000
AO-552	3	U-439156	Strong Point	1	4 P-47	1020	207	2 x 1000
AO-553	P-07	U-520374	4 C.D. Lt.	2	6 P-38	1040 1340	305 307	Incendiary
AO-554	P-02	U-515328	4 Fld.	2	6 P-38	1040 1340	305 307	"
AO-555	24	U-509381	4 C.D. Lt.	1	4 P-47	1105	108	2 x 1000
AO-556	25	U-520366	4 C.D. Lt.	1	4 P-47	1105	108	2 x 1000

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AERIAL OBJECTIVE NO.	TOT NO.	LOCATION	DESCRIPTION	No. of MISSIONS	No. & TYPE A/C	T.O.T	PATROL AO NUMBER	BOMB LOAD
AO-557	P-10	U-532372	4 C.D. Lt.	1	4 P-47	1105	208	Incendiary
AO-558	P-02	U-515328	4 Fld	1	4 P-47	1105	208	Incendiary
AO-559	P	Z-120988	Rd Bridge	1	6 P-38	1640	309	2 x 1000
AO-560	N	Z-115995	Rd Bridge	1	6 P-38	1640	309	2 x 1000
AO-561	R	S-308631	Rd Bridge	1	6 P-38	1810	310	2 x 1000
AO-562	S	S-306633	Rd Bridge	1	6 P-38	1810	310	2 x 1000
AO-563	T	S-305651	Rd Bridge	1	6 P-38	1940	311	2 x 1000
AO-564	R	S-308631	Rd Bridge	1	6 P-38	1940	311	2 x 1000
		(5) F/B - Primary targets to be bombed, followed by armed reconnaissances outside the "Armed Reconnaissance Line" in the area TOULON (Y-930970) to BRIGNOLIA (U-015295), north to the VERDON River (U-015670) east along the VERDON River to HOUGON (U-270750) to GRASSE (S-300770) to CANNES (S-370660), strafing any enemy concentrations of troops or vehicles observed.						
AO-565	Q-39	S-225515	2 C.D. Lt.	1	4 P-47	0815		2 x 1000
AO-566	Q-06	S-275542	5 D.P.	1	4 P-47	0815		2 x 1000
AO-567	1	U-524095	Strong Point	1	4 P-47	0825		2 x 1000
AO-568	20	U-441118		1	4 P-47	0825		2 x 1000
AO-569	N-17	U-448107	4 C.D.	1	4 P-47	0845		Incendiary
AO-570	N-15	U-448178		1	4 P-47	0845		Incendiary
AO-571	N-12	U-441188	4 C.D.	1	4 P-47	0955		Incendiary
AO-572	N-27	U-402163		1	4 P-47	0955		Incendiary
AO-573	22	U-575394	A C.D. Guns Lt.	1	4 P-47	1130		2 x 1000

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AERIAL OBJECTIVE NO.	TOT NO.	LOCATION	DESCRIPTION	No. of MISSIONS	No. & TYPE A/C	T.O.T.	PATROL AO NUMBER	BOMB LOAD
AO-574	P-15	U-554370	4 C.D. Guns	1	4 P-47	1130		2 x 1000
AO-575	6	U-541319	Strong Point	1	4 P-47	1310		2 x 1000
AO-576	10	U-585345	Strong Point	1	4 P-47	1310		2 x 1000
AO-577	4	U-559307	Strong Point	1	4 P-47	1320		2 x 1000
AO-578	5	U-559321	Strong Point	1	4 P-47	1320		2 x 1000
AO-579	10	U-585345	Strong Point	1	4 P-47	1330		2 x 1000
AO-580	7	U-554335	Strong Point	1	4 P-47	1330		2 x 1000
AO-581	9	U-551342	Strong Point	1	4 P-47	1400		2 x 1000
AO-582	8	U-561351	Strong Point	1	4 P-47	1400		2 x 1000
AO-583	U	U-615574	Rd. Bridge	1	8 P-47	1400		2 x 1000
AO-584	T	S-305651	Rd. Bridge	1	8 P-47	1500		2 x 1000
AO-585	Q	Z-134977	Rd. Bridge	1	8 P-47	1600		2 x 1000
AO-586	R	S-300631	Rd. Bridge	2	4 P-47	1700 1900		2 x 1000
AO-587	S	S-306633	Rd. Bridge	2	4 P-47	1700 1900		2 x 1000
AO-588	N	Z-113995	Rd. Bridge	2	4 P-47	1800 2000		2 x 1000
AO-589	P	Z-120988	Rd. Bridge	2	4 P-47	1800 2000		2 x 1000

(6) Fighter Bomber - Alternate - Targets for Armed Recces.

Armed Recces from armed reconnaissance line to target will bomb any large concentrations seen and check any reported by controller. If none seen will bomb indicated targets. Times indicated will be time over the alternate target.

AO-590	V	S-985825	Rd. Bridge	1	8 P-38	1230		2 x 1000
AO-591	W	T-548568	Rd. Bridge	3	8 P-47	1245 1630 1815		2 x 1000
AO-592	X	T-073797	Rd. Bridge	1	8 P-38	1345		2 x 1000
AO-593	Y	T-684600	Rd. Bridge	3	8 P-47	1415 1645 1845		2 x 1000
AO-594	Z	T-166733	Rd. Bridge	1	8 P-38	1430		2 x 1000
AO-595	AA	T-900616	Rd. Bridge	3	8 P-47	1445 1715 1945		2 x 1000
AO-596	AB	T-285638	Rd. Bridge	1	8 P-38	1515		2 x 1000
AO-597	AC	U-302755	Rd. Bridge	3	8 P-47	1530 1739 2015		2 x 1000
AO-598	AD	T-440613	Rd. Bridge	1	8 P-38	1545		2 x 1000

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4. Miscellaneous.

a. AO-501 and 502 besides including beach 264 A will include strong point U-585345.

b. AO-503 will include bombing road to FREJUS as well as strong point at U-561351.

c. The following alternate targets will be used in the event that the primary target has been destroyed:

(1) AO-503, 504, and 505, Road Bridge at N-886564.

(2) AO-506, 507, and 508 Road Bridge at N-913758.

(3) AO-510, 511, and 512 Rail Bridge at N-993803.

(4) AO-513, 514, 515, and 516 Road Bridge at N-981771.

d. A-20's will execute an ammunition drop to Commandos on D-Day.

e. TAC/R aircraft will be employed for spotting Naval Gunfire over the beaches throughout the operation.

5. Summary:

The implementation of this phase will involve approximately:

9 Heavy Bomber Groups - 15th Air Force
7 Medium Bomber Groups - MATAF
32 Night Intruder Sorties - XII TAC
194 Sorties - CTF - 88
464 Fighter-Bomber Sorties - XII TAC
22 Night Fighter Sorties - XII TAC

Fighters and Fighter escort sorties as required.

PHASE IV After D-Day

1. Medium bombers will attack two batteries of 14 inch coastal guns at Y-935924 and Y-938927 on D + 2 and continue these attacks until the guns are destroyed.

2. Medium and Heavy Bombers will continue the destruction of road and rail bridges across the RHONE - ISERS Rivers, and that part of the DURANCE out of fighter-bomber range, until all are destroyed. They will also continue bombardment of road and rail bridges and defiles in the Alps, from their junction with the ISERE River south to the coast.

3. Medium and Heavy Bombers will also continue counter-air force operations against any operational airdromes close or affecting the "ANVIL" area.

4. Upon completion of specified missions in paragraph 2 supra the necessary percentage of heavy and medium forces will be employed in the same areas to neutralize any repaired or temporary road and rail bridges and any cleared defiles. The balance of the heavy and medium bomber force available will be employed as follows:

a. Bombardment of any important marshalling yards, including those at AVIGNON, GRENOBLE, LYON, & TOULOUSE.

b. Bombardment of road and rail bridges to the North and West of the Tactical area that may be used by enemy reinforcements. The most important systems are:

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(1) Bridges across the RHONE River East from LYON.
(2) Bridges across the VISTRE - GARDE - and ARDICHE Rivers.
(3) Bridges across the GARONNE - ARIAGE Rivers.
(4) Bridges across the MIDI Canal

5. Fighter-bombers will support Naval Forces in their operations westward from the assault area to TOULON.

6. Fighter-bombers will continue to harass all enemy movement into the assault area, by armed reconnaissances over the following road nets.

a. While operating from Corsican Airfields:

(1) Marseille (T-460160) - Manosque (T-770860) - Digne (P-125065) - Nice (S-580800) - Torino (J-030270).
(2) (Without bombs) Nimes(S-630735) - Valence (O-025955) - Grenoble (J-660260) - Gap (O-975575) - Digne (P-125065) - Nice (S-580800

b. After arrival on Airfields in "ANVIL".

(1) Marseilles (T-460150) - Arles (S-850550) - Montpellier (S-240460) - Toulouse (O-280450).
(2) Tarascon (S-870690) - Clermont Ferrand (W-580875) - Lyon (X-950880) - Valence (O-025955).
(3) Cannes (S-363650) - Aspremont (O-695490) - Grenoble (J-660260) - Gap (O-975575).
(4) Nice (S-580800) - Torino (J-030270) - Milano (K-250650) - Genova (O-959500).

7. Fighter-Bombers will continue the close support.

8. Fighter-bombers will continue the interdiction of communications by bombardment of road and rail bridges across the Rivers DURANCE - VERDUN - RHONE - ISERE and their tributaries. Further interdiction will be undertaken by rail cuts within the following rail systems:

a. While operating from Corsican Airfields:

(1) Toulon (Y-920980) - Marseilles (T-460150) - Aix (T-515420) - Brignoles (U-015295).

(2) Meyrargues (T-575545) - Draguignan (U-340460) - Grasse (S-300780) - Digne (P-125065).

(3) Cannes (S-363650) - Gunio (N-870550) - Sevona (O-600400) - Nice (S-580800)

(4) Aix (T-515420) - Sisteron (O-880170).

b. After arrival on airfields in "ANVIL"

(1) Marseilles (T-460160) - Arles(S-850550) - Avignon (S-980865) - Marseilles (T-460160).
(2) Arles (S-850550) - Toulouse (O-280450) - Rodez (N-190285) - Ales (N-395040) - Avignon (S-980865)
(3) Avignon (S-980865) St. Etienne (X-610510) - Lyon (X-950880)- Grenoble (J-660260) - Sisteron (O-880170).

9. The following night intruder routes will continue in force until the fall of TOULON:

a. Cannes(S-363650) - Digne (P-125065) - Gap (O-975575) - Aspermont (O-695490) - Digne (P-125065) Nice (S-580800).
8 sorties during hours of darkness.

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b. Toulon (Y-920980) - Brignoles (U-015295) - Aix (T-515420) - Porcalquier (T-760900) - Avignon (S-980865) - Nimes (S-630735) - Marseilles (T-460150).
8 sorties during hours of darkness.

c. Toulon (Y-920980) - Aix (T-515420) - Avignon (S-980865) - Montelimar (N-925540) - Tarascon (S-870690) - Aix (T-515420) - Toulon (Y-920980).
8 sorties during hours of darkness.

d. Nice (S-580800) - Torino (J-030270) - Allessandra (J-760060) - Savona (O-600400).
6 sorties during hours of darkness.

e. Coast road from Savona (O-600400) to Nice (S-580800)
2 sorties during hours of darkness.

10. Summary:

a. The implementation of this phase will involve approximately:

Heavy Bomber Group missions as required - 15th Air Force

7 to 14 Medium Bomber Group Missions - MATAF

600 Fighter-Bomber Sorties - XII TAC

32 Night Intruder Sorties - XII TAC

Fighter and Fighter Escort sorties as required - XII TAC

b. Considerable flexibility to meet changes in enemy disposition or the tactical situation is retained through the method of scheduling Fighter-Bomber effort.

By command of MAJOR GENERAL PATCH:

A. A. WHITE,
Brigadier General, GSC,
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John S. Guthrie
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Colonel, GSC,
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: Date: 31 July 1944 :

HEADQUARTERS SEVENTH ARMY 31 July 1944
APO 758 US ARMY

Copy No. 122

Ref. No. X-1317A

SUPPLEMENT NO. 1 to Annex No. 2.
To Field Order No. 1. Anvil.

SUPPLEMENT to INTELLIGENCE ANNEX

A. PHOTO INTELLIGENCE.

1. The Photo Reconnaissance Unit in support of Seventh Army will move to the ANVIL area as follows:

a. D Day lift - From NAPLES. Ground echelon and three interpreters with vehicles and supplies for four aircraft (referred to as Advance Flight).

b. D/8 to D/10 - from BORGO, Corsica. The 23rd Photo Reconnaissance Squadron.

c. D/10 from NAPLES. Seventh Army Photo Center.

2. All flying from the date of embarkation of the D-day convoy until the installation of the Advance Flight on ANVIL will be carried out from BORGO. The pilots will be briefed at this airfield. The aircraft after carrying out their mission will land at POMIGLIANO Airport (NAPLES) where the Seventh Army Photo Center will be installed. The processing of photography and interpretation will take place at this location.

3. A radio communications net including Army Headquarters, Corps Headquarters, 23rd Squadron, Borge, Sardinia, and the Photo Center, POMIGLIANO, is available for the exclusive use of Photo Reconnaissance Unit traffic.

4. Requests for Photo Reconnaissance Unit's missions will be made to Photo Reconnaissance Unit Headquarters Seventh Army. Requests for missions will not be made direct to the Photo Center.

5. The task of Photo Reconnaissance Unit during the movement period will be greatly restricted due to the division of the Photo Reconnaissance Unit into 3 widely separated groups. During this period of time communications are expected to be restricted and an automatic program of missions for the period D-5 to D/5 are therefore planned. As soon as satisfactory communications are established, missions may be requested in the normal manner. The program includes:

a. On D-5, D-3, and D-2, weather permitting, 36" focal length cover of beaches and the immediate surrounding country. Changes noted will be broadcast to Headquarters ships through Naval Signal Net.

b. D day to establishment of the Advance Flight. 10 - 20 mile road strips of main communications over which our troops will advance (See overlay attached). The strips will commence approximately 6 miles in advance of the bombline. The purpose of these missions is to detect demolitions. The results will be broadcast by Photo Center at POMIGLIANO.

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c. In event of the situation becoming stabilized, 24" focal length block cover will be flown on Corps Front. When counter-battery are prepared to give areas from sound ranging, flash spotting, Prisoner of War reports, etc., 36" focal length coverage will be made.

6. The plan as outlined in para. 5 above is based on the possibility of a breakdown in the radio communications.

7. A map (scale 1/500,000) with trace showing code names for all roads up to the RHONE River and 44° North will be issued to Corps P.I. Sections, and the Squadron for case of reference.

B. TACTICAL RECONNAISSANCE.

1. Pending the establishment of communication channels as outlined in Annex No. 2 (Intelligence) Tactical Reconnaissance missions will be carried out automatically commencing D day.

2. Following are Routes 1, 2, 3, 4, 2A, and 3A for Tactical Reconnaissance missions commencing "D" Day and continuing until instructed to the contrary. This road not covered is shown on the attached overlay.

"1" Nice - La Californie - Villars - Digne - Volonne - Graison - Mezel - Grasse - Nice.

"2" Cannes - Manosque - Aix - Grande Bastide - Cannes.

"3" Cannes - Toulon - Marseille (Return 15 miles inland).

"4" Imperia - Tenda - Demonte - Barcelonnette - Guillaumes - St. Martin - Monaco.

"2A" Cannes - Manosque - Apt - Salon de Provence - Aix - Cannes.

"3A" Cannes - Toulon - Brignoles - Grande Bastide - Cannes.

3. Twenty-two missions are planned for each day commencing on D-day. The mission number, time of take off, route and call sign are listed below:

MISSION	TAKE OFF	ROUTE	CALL SIGN	REMARKS
1	0530	3	Brutus Red	
2	0615	2	Trustee Red	
3	0630	1	Cameo Red	
4	0730	3	Brutus Blue	
5	0815	2	Brutus Yellow	
6	0845	1	Cameo Blue	
7	0930	2A	Brutus Red	
8	1015	3A	Rebel Red	
9	1045	1	Rebel Blue	
10	1130	2	Trustee Blue	
11	1215	3	Brutus Blue	
12	1245	1	Cameo Yellow	
13	1300	4	Cameo Red	

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MISSION	TAKE OFF	ROUTE	CALL SIGN	REMARKS
14	1330	3	Brutus Yellow	
15	1415	1	Brutus Red	
16	1445	2A	Brutus Blue	
17	1530	3A	Trustee Yellow	
18	1615	2	Trustee Red	
19	1645	1	Cameo Blue	
20	1730	2	Trustee Blue	
21	1800	1	Cameo Yellow	
22	1830	3	Brutus Yellow	

4. The allotment of fighter aircraft for artillery adjustment is six missions per day beginning D/1.

5. Armed reconnaissance of roads as shown on the attached Tactical Reconnaissance overlay is planned throughout the hours of darkness. Results of the reconnaissance will be furnished the interested units by most expeditious means.

By command of MAJOR GENERAL PATCH:-

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Brigadier General, GSC.
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WILLIAM W. QUINN
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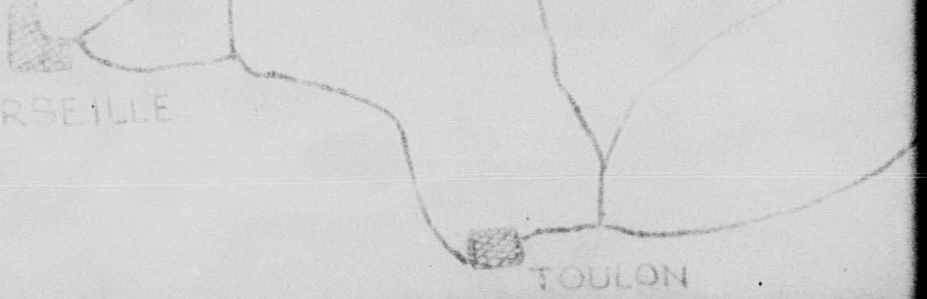
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NICE

50

20

RCN - EVERY 2 HOURS

RCN TWICE DAILY

NIGHT RCN (INTRUDER)

MAP AIRCRAFT (AIR) 1:500,000

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HEADQUARTERS SEVENTH ARMY
APO 758

Ref No X-1400

4 August 1944

SUBJECT: Amendment to Annex No. 9 to Field Order No. 1, "ANVIL".

TO : See Distribution.

1. The following Amendments are made to Annex No. 9, Ref. No. X-1300, to Field Order No. 1, "ANVIL", Ref. No. X-1317, dated 26 July 1944.

a. Change Section III, paragraph 4 a (3) to read, "Land and pass the 1st French Infantry Division (DMI) over Beach 259 on or about D + 1".

b. Change Section III, paragraph 4 b (3) to read, "Land and pass the 2nd Combat Command, 1st Fr Armored Division over the North end of Beach 262, and the 3rd French Infantry Division (DIA) over the south end of Beach 262 on or about D + 1".

By Command of Major General PATCH:

ARTHUR A. WHITE,
Brigadier General, GSC,
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David Guthrie

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Army "B"	33-38
French Mission	39,40
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HEADQUARTERS SEVENTH ARMY
APO # 758

Copy No. 122
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28 July 1944

ANNEX NO. 9
TO F.O. NO. 1 ANVIL

BEACH MAINTENANCE PLAN

		Pages
SECTION I	GENERAL	1 - 3
SECTION II	ORGANIZATION, BEACH CONTROL GROUP	3
SECTION III	ORGANIZATION, TASKS & MISSIONS, BEACH GROUP	4 - 12
SECTION IV	REPORTS	13

* * * * *

By command of MAJOR GENERAL PATCH:

Arthur A. White
Brigadier General, G.S.C.
Chief of Staff.

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HEADQUARTERS SEVENTH ARMY
APO 758

BEACH MAINTENANCE PLAN

SECTION I - GENERAL

1. DEFINITION.

a. A Beach Group is an organization specially constituted, trained and equipped for the technical organization of beaches to regulate and facilitate the landing and movement of personnel and equipment on and over the beach to assembly areas and vehicle parks; to unload cargo ships; to move and receive supplies into beach dumps; to select, organize and initially operate beach dumps; to establish and maintain communications; and to evacuate casualties and prisoners of war over the beach to ships and craft.

2. COMMAND.

a. Beach Groups will be attached to Corps. There will be three (3) Beach Groups in all, one for each assault division. Initially Beach Groups will be presumably under command of the Sub-Task Force Commander. Beach Groups will revert to Force control and command when Army assumes the supply function. The Force Commander will exercise control over the three Beach Groups through his G-4 and an agency known as the Beach Control Group.

3. BEACH CONTROL GROUP.

a. The Beach Control Group will be responsible for coordinating the equipping, training, planning and operations of the Beach Groups.

4. PLANNING.

a. Beach Groups will prepare operational plans in conformity with Army directives for Army approval in cooperation with Sub-Task Forces concerned.

5. BEACH MAINTENANCE AREA.

a. The shore establishment which includes the beach, the beach dumps and connecting road net is called the beach maintenance area. Each Beach Group will establish, as soon as possible, a consolidated beach maintenance area. This area will normally not extend more than three miles inland from the shoreline. It may include minor ports in the vicinity. The development and operation of such ports will be by the Beach Group in whose sector the ports are.

b. It is estimated that each Beach Group as constituted for this operation is capable of moving at least 3000 tons of supplies per day from ships into segregated dumps and supplying the technicians and labor necessary to operate these dumps.

c. As tonnage requirements increase, the capacity of the Beach Groups will be increased by improvement of beach facilities, the development of local small ports and the augmentation of the Groups by Port Company personnel and additional depot units. If necessary, additional service personnel will be made available from Army reserves.

d. When a major port is captured and unloading over the beaches ceases the Shore Regiments will remain under Army control but the unloading and dump operating personnel will pass to Base Section control and the Base Section will be responsible for operation or consolidation of such beach dumps as Army may not designate as Army forward dumps.

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e. Beach Groups will exploit suitable landing areas and establish new beach maintenance areas which may become available to the westward following the line of advance.

6. CONTROL OF CRAFT AND BEACH TRAFFIC.

a. Naval Beach Battalions attached to Beach Groups, landing with assault waves of division Sub-Task Forces, will provide Naval shore to ship signal communications and control of off-shore boat traffic. Movement of personnel and vehicles across the beach will be regulated by Beach Group military police and engineer guides in accordance with the requirements of the Senior Beach Group Commander ashore. Beach markers will be placed by Beach Group Engineer reconnaissance parties.

7. ENGINEER TASKS.

a. The combat engineers and gapping teams with the assault waves will be responsible for initial Engineer tasks required to assist combat vehicles of the assault waves across beaches and to open beach exits.

b. Beach Group Engineers, upon landing, will relieve the combat Engineers of Engineer tasks on the beaches, will develop and expand the beach roadway system for continued operation, clear the beach of mines, obstructions and obstacles, open additional beach exits, prepare dump areas for receipt of supplies, and be responsible for maintenance of beach exits and roads within the established beach maintenance area.

8. DUMP RESPONSIBILITY.

a. The operation of all beach dumps including inloading, receipt, issue and outloading will be the responsibility of the Beach Groups until such time as the Army relinquishes this function to the Base Section. Transportation of supplies from beach dumps to forward areas will not be a function of the Beach Groups.

b. First supplies ashore will be stored initially in beach dumps by Service and Class in the battalion beach group area. As soon as the tactical situation permits, supplies will be delivered to consolidated regimental maintenance area dumps. Beach Groups are responsible for dump consolidation and provision of M/T for this purpose.

c. Maintenance area dumps will be established by Service and Class; supplies will be segregated and stacked for ease of issue and inventory.

d. Reports showing receipts, issues and balances on hand in each dump will initially be submitted daily, covering the preceding 24-hour period, to G-4 of the division or Corps as required and later through Beach Control Group to Army G-4. These reports will be prepared and submitted as shown in Appendix "A".

e. Issue will be on demand except for controlled items of supply and equipment which will be in conformity with the Army policies and directives.

f. Labor for the operation of dumps in the beach maintenance area to include receipt, issue and security of dumps, and traffic control within the dump area will be provided by the Beach Groups until relieved by Army directive.

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SECTION II - ORGANIZATION

BEACH CONTROL GROUP

UNITS	PERSONNEL	VEHICLES
Headquarters 5-510-1 (Mod)	80	13
Headquarters Company 5-510-1 (Mod) plus attachments	80	35
Signal Operating Co. (Spec.)	186	33
759th MP. Bn (-4 Companies)	45	10
TOTAL	391	91

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SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP.

1. ORGANIZATION OF BEACH GROUP.

UNITS	GROUP A	GROUP B	GROUP C	TOTAL PER GROUP PERS.	VEH.
Engr. Combat Regt.	1	1		1900	350
Engr. Shore Regt.			1	1465	272
Engr. Combat Bn.			1	683	138
Naval Beach Bn.	1	1	1	455	70
Med. Bn. Hq.	1	1	1	44	8
Med. Collecting Co.	3	3	3	105	20
Med. Clearing Co.	1	1	1	117	19
Med. Clearing Plat.	1	1	1	42	6
MP Company	1	1	1	104	15
Det., PW Esct. Gd. Co.	1	1	1	31	1
Platoons Boat Gds.	3	3	3	99	0
Signal Company (Spec.)	1	1	1	220	32
Det., Chem. Depot Co.	1	1	1	18	2
Platoon, Engr. Depot Co.	1	1	1	33	3
Ordnance Ammo. Co.	1	1	1	186	24
Section, QM Gas Supply Co.	1	1	1	27	12
Platoon, QM Rhd. Co.	1	1	1	75	3
Det., Signal Depot Co.	1	1	1	24	1
Det., Signal Rep. Co.	1	1	1	32	9
Air Force Beach Detail	1	1	1	23	4
RAF Beach Section	1	1	1	27	6
Det., Regulating Co.	1	1	1	75	6
Ord. Med. Auto Main. Co. (DUKW)	1	1	1	202	78
Hq. & Hq. Det., QM Bn. (Mob)	1	1	1	27	7
Amphibian Truck Co.	5	5	5	920	275
QM Truck Co.	2	2	2	230	108
Hq. & Hq. Det., QM Bn.	1	1	1	17	1
QM Service Co.	5	5	5	1095	20
Plat., Cml. Decon. Co.	1	1	1	34	9
Det., Ordnance Depot Co.	1	1	1	22	2
Hq. & Hq. Det., Port Bn.	3	2	2	* 60	6
Attached on Landing: Port Company	10	10	8		

* Total for 2 Hqs.

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2. TASKS. Beach Groups are responisble for the execution of the following tasks:

a. Mark hazards to navigation in the vicinity of the beach and determine most suitable landing points.

b. Effect emergency boat repairs.

c. Care for beach casualties and evacuate casualties to ships in accordance with Naval Attack Force and Landing Force Medical Plans.

d. Control boat traffic, including DUKWs afloat, in vicinity of beaches and between ships and shore.

e. Direct landing, retraction and salvage of all boats and craft.

f. Maintain communications with Naval task groups, Naval vessels and M/T store ships.

g. Mark landing beach limits.

h. Establish and mark debarkation points on landing beaches.

i. Unload supplies and material of the landing troops.

j. Remove beach and shallow underwater mines, obstructions and obstacles.

k. Establish and maintain a prisoner of war enclosure and evacuate prisoners of war in ships in accordance with Landing Force instructions.

l. Establish communications with adjacent Beach Groups and forces ashore as required.

m. Construct landing facilities where required.

n. Maintain liaison with senior troop commander within the zone served by the particular Beach Group.

o. Maintain order and direct traffic on and in the vicinity of the beach for various elements using the beach.

p. Facilitate movement of unit personnel and equipment landed on the beach off the beach and insure movement of supplies arriving on the beach into beach dumps at the rate established in the Army plan.

q. Unload all vehicles and supply ships and transport supplies loaded in DUKWs from ship to shore.

r. Select and establish beach dump sites.

s. Organize beach dumps for reception and issuance of supplies and equipment.

t. Maintain a record showing personnel, organizations, material, vehicles and supplies which have been landed on the beach.

u. Maintain a record of supplies issued and to whom and a continual dump level record.

v. Disseminate proper orders or notification in advance to ships, shore parties, attached trasportation, beach dump supply attachments and troops involving changes in logistical plans.

w. Construct and maintain beach roads and exits.

x. Provide for decontamination of gassed areas on the beach.

y. Maintain a control station with copies of all manifests of off-lying ships and a situation map for information of landing units.

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z. Operate emergency motor maintenance service for vehicles damaged in landing, aid vehicles in crossing the beaches and clear the beaches of all stranded vehicles.

aa. Provide local security and defense for beach area.

bb. Establish and maintain de-waterproofing areas and render technical advice on de-waterproofing of vehicles.

cc. Collect and salvage all waterproofing materials.

dd. Collect, salvage and reload on ships all life belts deposited on beaches.

ee. Prepare the smoke plan for screening beach installations and ships standing offshore in conjunction with the Navy and in accordance with the Force and Naval smoke plan, and be responsible for its execution.

ff. Coordinate the antiaircraft protection of the beach with the AAA Group Commander of the Sub-Task Force.

gg. Establish and maintain a bivouac area for staging of replacements or other units landing over the beaches, including messing facilities for all Beach Group personnel and transients.

hh. Operate water points to serve all troops in the vicinity of beaches and establish storage points and handle shore operations in receiving water from LSTs.

ii. Render such reports to higher headquarters as may be required.

jj. Perform additional duties as required.

3. GENERAL MISSIONS OF BEACH GROUP UNITS.

Beach Control Group. Insures the movement of personnel, vehicles and supplies across the beaches in support of a landing operation involving several division Sub-Task Forces.

Beach Group. Insures the movement of personnel, vehicles and supplies across the beach in support of a landing operation involving a division Sub-Task Force.

Battalion Beach Group. Organizes and operates all shore installations necessary for debarkation, supply, evacuation and local security in support of a regimental combat team or combat command.

Engineer Combat (or Shore) Battalion. Commands Combat (or Shore) Battalion and attached service troops and performs all engineer work in beach maintenance area assigned to the battalion necessary to facilitate debarkation, supply, evacuation and local security.

Engineer Combat (or Shore) Company. Organizes, operates and secures all Combat (or Shore) Company installations necessary to debark all personnel, vehicles and supplies in support of a battalion combat team.

Naval Beach Battalion. Surveys beaches, marks and removes underwater obstacles, assists landing craft, makes emergency boat repairs, operates naval shore to ship communications, controls landing craft and DUKW traffic afloat, evacuates casualties and PWs to ships and assists in shore operations when required.

Medical Bn. Hq. Coordinates activities of medical companies in collecting clearing and evacuation of casualties from beach to ship or to higher medical echelons in accordance with medical plan; supervises medical supplies and sanitation.

Medical Companies. Collects and/or clears beach casualties in conjunction with medical detachments and naval beach medical sections.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 3. GENERAL MISSIONS OF BEACH GROUP UNITS - CONT'D.)

MP Company. Guides and enforces traffic and military police regulations in the beach maintenance area.

PW Esct. Guard Co. Receives and guards PWs, operates beach PW enclosures delouses PWs, and processes and evacuates PWs to ships.

Boat Guards. Aids in guarding, delousing, processing and evacuating PWs in beach areas and furnishes ship guards.

Signal Company (Spec). Establishes and maintains radio and telephone communications and message centers for Beach Group Headquarters to highest echelon of associated combat units ashore, to adjacent Beach Groups and intra-Beach Group communications to shore and dumps.

Detachment, Chemical Depot Co. Aids Ordnance Ammo. Company in receipt, segregation and issue of CWS supplies, keeps CWS supply records.

Platoon, Engr. Depot Co. Receives, stores and controls issue of Engineer supplies and keeps dump records.

Ordnance Ammo. Co. Organizes and operates Ordnance dumps including receipt, storage, issue and records of all Ordnance supplies.

Section, QM Gas Supply Co. Organizes and operates all Class III dumps including receipt, storage, issue and records of all Class III supplies.

Platoon, QM Rhd. Co. Organizes and operates all QM Class I and II dumps including receipt, storage, issue and records of QM Class I and II supplies.

Detachment, Signal Depot Co. Organizes and operates Signal dumps including receipt, storage, issue and records of Signal supplies.

Detachment, Signal Repair Co. Aids in operation of Signal dumps, receives and repairs signal equipment.

Air Force Beach Detail. Organizes and operates dumps for AC supplies including identification, receipt, storage, issue and records.

RAF Beach Section. Organizes and operates dumps for RAF supplies, including identification, receipt, storage, issue and records.

Detachment, Regulating Co. Provides beach checkers and regulates and controls Beach Group vehicle movements including DUKWS ashore.

Ordnance Medium Auto Maintenance Co. (DUKW). Establishes and operates de-waterproofing areas including rendering of technical advice on de-waterproofing and salvage of waterproofing materials; maintains Beach Group DUKWs, vehicles and automotive equipment.

Hq. & Hq. Det., QM Bn. (Mob). Coordinates activities of Amphibian and QM truck Companies in transporting supplies and equipment from ship, craft or shore to dumps.

Amphibian Truck Co. Transfers equipment and supplies in DUKWs from ship or craft to dumps.

QM Truck Co. Transfers equipment and supplies in trucks from shore to dumps.

Hq. & Hq. Det., QM Bn. Coordinates activities of QM Service Companies.

QM Service Company. Furnishes personnel to assist in dump and unloading operations.

Platoon, Chemical Decon. Co. Executes chemical decontamination of equipment, vehicles, supplies, areas, roads, bridges and other military objects in the beach maintenance area, exclusive of personnel, and carries out the smoke plan.

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(SECTION III - ORGANIZATION, TASKS & MISSIONS, BEACH GROUP - 3. GENERAL MISSIONS OF BEACH GROUP UNITS - CONT'D)

Hq. & Hq. Det., Port Bn. Coordinates the activities of the Port Companies; establishes and operates stevedore gear dumps; collects, stores and repairs all cargo handling gear; collects, salvages and prepares all life belts for return to ships and craft.

Port Company. Furnishes personnel for unloading of ships and for dump operations when ashore.

4. SPECIAL TASKS.

a. The following special tasks are allocated to the Alpha Beach Group:

(1) Develop beaches 259 and 261 for initial unloading of vehicles and supplies.

(2) Supply the Air Corps operating the Ramatuelle airstrip over beach 261.

(3) Land and pass the 1st French Inf. Division and 3rd Algerian Division over Alpha beaches on about D ∕ 1.

(4) Open beaches successively westward in the vicinity of La Lavendou and Hyeres as directed by the Beach Control Group.

b. The following special tasks are allocated to the Delta Beach Group:

(1) As soon as the tactical situation permits to develop beach 262 and the adjacent area as the main maintenance area.

(2) To develop the ports of St. Tropez and St. Maxime.

(3) To be prepared to land and pass one French Division over beach 262 on D ∕ 1.

(4) To coordinate with the Air Corps or Aviation Engineers on the mutual development of the Cogolin-Grimaud area for supply dumps and airstrips.

c. The following special tasks are allocated to the Camel Beach Group:

(1) Develop beach 264A and vicinity as the main maintenance area.

(2) Develop the port of St. Raphael.

(3) Land and pass a combat command of the French Armored Division over the beaches on D or D ∕ 1.

(4) Where capture of the port of Toulon is imminent be prepared to move immediately, less the 48th Combat Bn. and attached Beach Group Units, into the port for initial repair and operation.

5. TRAFFIC CONTROL.

a. Traffic control in the beach maintenance areas is a responsibility of the military police of units concerned.

6. MEDICAL CARE AND EVACUATIONS.

a. The medical battalion of the Beach Groups:

(1) Collects casualties in the beach maintenance area.

(2) Receives casualties from forward clearing stations.

(3) Operates beach clearing stations.

(4) Evacuates casualties to ships, craft and planes in accordance with the Army and Navy plans.

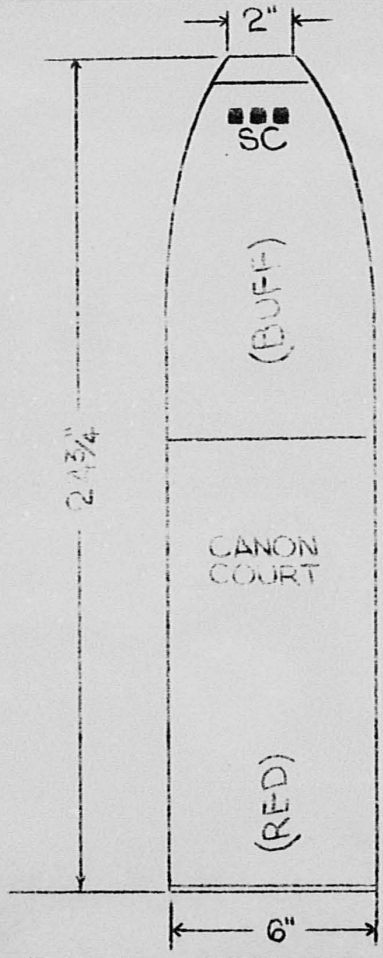
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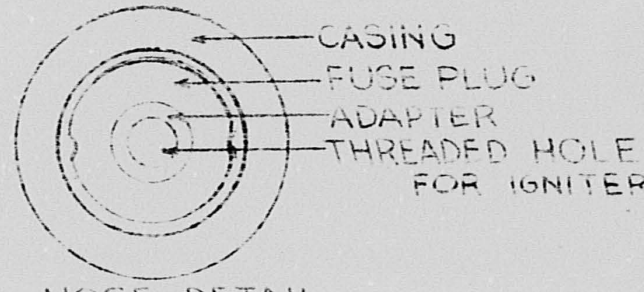
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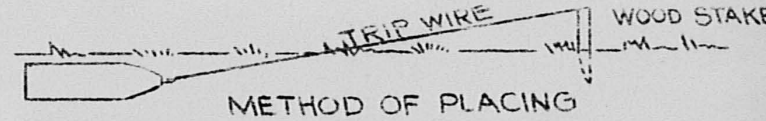
ANNEX 1
G-2 INFORMATION BULLETIN
Nº 5



TYPICAL GERMAN ARTILLERY SHELL
USED WITH TRIP WIRE FOR BOOBY TRAP
SCALE 3"=1'



NOSE DETAIL
ACTUAL SIZE



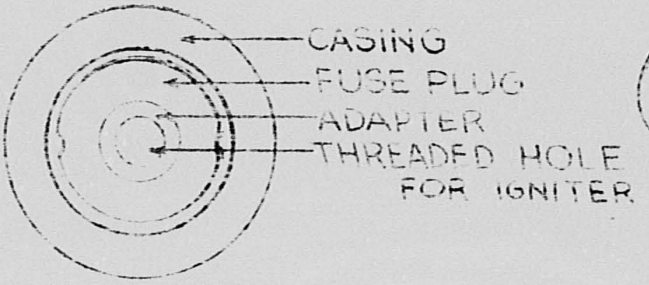
METHOD OF PLACING

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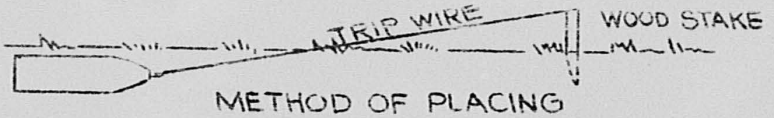
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ANNEX 1

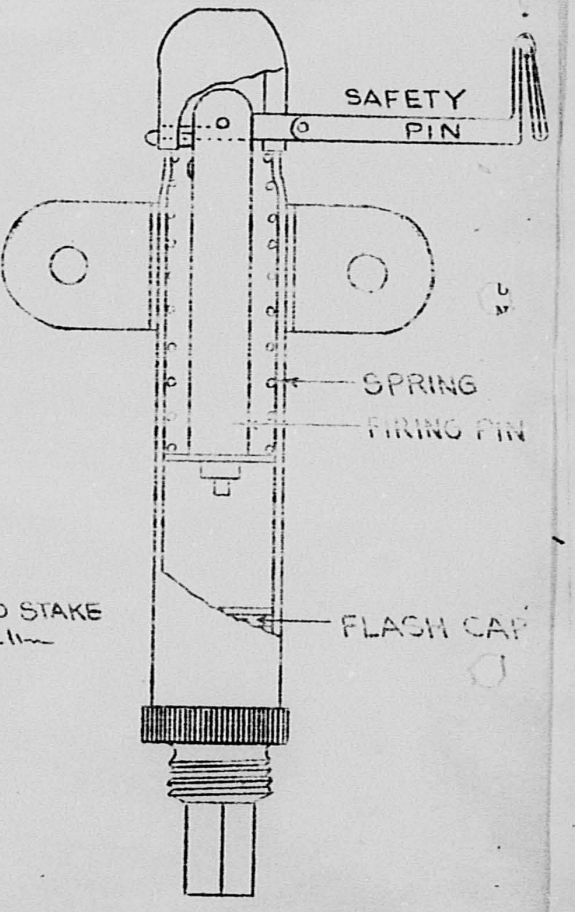
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NOSE DETAIL
ACTUAL SIZE



METHOD OF PLACING



IGNITER DETAIL
TWICE ACTUAL SIZE

AN ARTILLERY SHELL
RIP WIRE FOR BOOBY TRAP
LE 3"=1'

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TASK FORCE
SEVENTH ARMY

FIELD ORDER
NO. 18

FOR OPERATION
DRAGOON

5 AUGUST 1944

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AG, M&D, APHQ
No. 8895

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: INIT: :
: DATE: 5 AUG 1944 :

HQ 1st AIRBORNE TASK FORCE
LIDO DI ROMA, ITALY
5 AUGUST 1944

Director Research Studies Inst Air Univ Archives Branch Maxwell AFB, Alabama
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FO NO 1 COPY NO. _____

MAPS: SOUTHERN FRANCE, 1/25,000; 1/50,000; 1/100,000.

1. a. Enemy - Annex No 1, Intelligence.

b. Friendly Forces.

(1) SEVENTH ARMY, supported by WESTERN NAVAL TASK FORCE and XII TACTICAL AIR COMMAND , will assault the South coast of FRANCE,, secure a beachhead EAST of TOULON and then assault and capture TOULON.

(2) The Naval Commander, WESTERN TASK FORCE, will command the entire seaborne expedition from the time of sailing until the ground forces are firmly established ashore; thereafter, command of ground operations passes to the Commanding General, SEVENTH ARMY.

(3) XII TACTICAL AIR COMMAND will support the operation. Additional air support by MATAF will be available to Commanding General, XII TACTICAL AIR COMMAND, on request.

(4) SEVENTH ARMY will make a daylight seaborne and airborne assault on area shown, to seize and secure a beachhead for the assault and capture of Toulon. (Annex 2, Information of Friendly Forces (overlay)).

2. a. The 1 AIRBORNE TASK FORCE moves in successive air lifts from airbases in ITALY, landing in the vicinity of LE MUY, FRANCE, D DAY. Assists the effort of KODAK force (VI US CORPS) by preventing movement of enemy forces into the beach assault area from WEST and NORTHWEST.

b. 1 AIRBORNE TASK FORCE attached to KODAK force when contact is established. Reverts to SEVENTH ARMY control on Army order.

TROOPS

2d INDEP PCHT BRIG (BR)
517 RCT, PCHT
509 INF BN, PCHT
550 INF BN, GLI
551 INF BN, PCHT
463 FA BN, PCHT
602 FA BN, GLI
AT CO 442 INF, GLI
CO A 2d CML BN, GLI
CO D 83d CML BN, GLI
887 ENG CO GLI

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3. See Annex 3 (operations overlay); 4. (air movement table).
a. 2d INDEP PCHT BRIG (BR).
Atchd: CO A 2d CML BN GLI 1 -
Land DZ-LZ O. Secure area 5 for subsequent glider landings. Prevent movement enemy forces within sector of responsibility. Clear LE MUY of enemy forces prior to dark D DAY. Assist advance of seaborne forces by neutralizing enemy installations to the EAST within range of weapons. Be prepared to attack to the EAST or NORTH on TASK FORCE order.

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b. 517 RCT PCHT
517 INF RCGT PCHT
460 FA BN PCHT
596 ENG CO PCHT (-1 Plat)
Atchd: CO D 83rd CML BN GLI
AT CO 442d INF GLI
Land DZ - LZ A. Occupy areas 1,2,3. Prevent movement enemy forces within sector of responsibility. Neutralize enemy resistance in LA MOTTE. Secure LZ A for subsequent glider landings. Be prepared to attack to the WEST or NORTHWEST on TASK FORCE order.

c. 509 BN CT
509 INF BN PCHT
463 FA BN PCHT
Atchd: 1 Plat 596 ENG CO PCHT
Land DZ-C. Occupy area 4. Prevent movement enemy forces within sector of responsibility. Assist by fire 2d INDEP PCHT BRIG (BR). Assist advance of seaborne forces by neutralizing enemy installations to the EAST within range of weapons. Be prepared to attack to the EAST or SOUTH on TASK FORCE order.

d. 551 INF BN PCHT
Atchd: 1 Plat 887 ENG CO GLI.
Land DZ - LZ A. Relieve elements 517 RCT in area 1 and assume mission assigned the units relieved.

e. ARTILLERY - See Annex 5.

f. 550 INF BN GLI
Atchd: 1 Plat 887 ENG CO GLI
Land NE sector LZ-O. Be prepared to reinforce 517 RCT, 2d INDEP PCHT BRIG (BR); be employed on attack or counterattack mission; or to receive and distribute supplies.

g. 887 ENG CO (-)
Land LZ-O Division reserve. Assembly area and mission will be assigned on landing.

x. (1) Bridges within TASK FORCE sector will be prepared for demolition but will not be blown except as emergency measure, or on order of TASK FORCE.

(2) Roads will not be cratered unnecessarily.

(3) Units which receive attachments or relief will guide attachments or relieving units to positions of employment.

(4) CT's and independent units will dispatch one Ln O with Msgr to TASK FORCE CP at earliest practicable time after landing.

(5) 517 RCT, 509 BN CT, 2d BRIG will exchange Ln O's prior to departure from bases.

(6) No weapons smaller than caliber .50 will be fired at aircraft unless attacked.

(7) Use of glider pilots - Annex 6.

4. See ADM O 1.

5. a. SOI in effect dated 1 August 1944.

b. See Annex No 7 - Signal

c. CP's

	Location
1st A/B Task Force	To be reported in LZO
2nd Pcht Brig (Br)	To be reported
517th Pcht RCT	To be reported
509th Pcht Inf CT	To be reported
551st Pcht Inf Bn	To be reported
550th [illegible] Bn	To be reported

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d. All means of signal communication will be put into operation immediately upon landing.

FREDERICK
CG

OFFICIAL: Ellis
ELLIS
G-3

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Annexes:

1 - Intelligence
2 - Overlay, friendly forces
3 - Operations Overlay
4 - Air Movement Table
5 - Field Artillery Plan
6 - Glider Pilots
7 - Signal

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CG,, VI Corps	41 - 45
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CG, 45th Inf DIV	49 - 51
CG, 3d Inf DIV	52 - 54
CG, Prov TC Air DIV	55 - 57
2d Ind Pcht Brig (Br)	58 - 60
CO, 517th RCT	61 - 63
CO, 509th Pcht Inf Bn	64
CO, 463d Pcht FA Bn	65
CO, 551st Pcht Inf Bn	66
CO, 550th Gli Inf Bn	67
CO, 602d Gli FA Bn	68
CO, 887th Gli Engr Co	69
CO, Co "D" 83d Cml Bn	70
CO, Co "A" 2d Cml Bn	71
CO, AT Co, 442d Inf Regt	72
CO, 512th AB Sig Co	73
CO, 676th MP Co	74
CO, Det, 3d Ord MM Co	75
CG, 1st ABTF	76
G-1, ABTF	77
ACofS, G3, ABTF	78 - 79
ACofS, G2, ABTF	80
ACofS, G1, ABTF	81
ACofS, G-4, 1st ABTF	82
AG Files, 1st ABTF	83
Arty Off, 1st ABTF	84
Sig Off, 1st ABTF	85
Engr Off, 1st ABTF	86
Surg, 1st ABTF	87
Ord Off, 1st ABTF	88
QM Off, 1st ABTF	89
PM, 1st ABTF	90
Cml Off, 1st ABTF	91
Hq Comdt, 1st ABTF	92
Ln Off, Seventh Army	93
Ln Off, VI Corps	94
Ln Off, 36th Inf Div	95
Ln Off, 45th Inf Div	96
Tactical Hq, 2d Ind Pcht Brig(Br)	97
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Hq 1st A/B TASK FORCE
IN THE FIELD
2400B 5 Aug, 1944

INTELLIGENCE ANNEX

Annex No 1 to FO 1.

Maps: Southern France 1/25,000
Southern France 1/100,000

1. SUMMARY OF ENEMY SITUATION.

Refer to G-2 Report No 1 this Hq, 1 Aug 1944, G-2 Information Bulletin No 1 this Hq 2 Aug 1944, and current Intelligence Summaries.

2. ESSENTIAL ELEMENTS OF INFORMATION.

a. Report Augmentation of enemy AA defense within THEOULE--SUR MER--DRAGUIGNAN--LE PUGET--LA MOTTE area, all inclusive, to include time, disposition, calibre, type, strength and location.

b. Report any organization of the ground in the TRANS--EN--PROVENCE-LES ARCS--ROQUEBRUNE--MARCHANDISE --LA VAUGINE area inclusive.

c. Observe for movement of enemy Trs and material N E from LE LUC; SE from DRAGUIGNAN; S from ST PAUL-EN-FORET and W from LE PUGET.

d. Report time of movement, strength, composition, direction, speed of enemy reinforcements into the ARGENS--NARTUBY--ENDRE river valley, with particular attention given to unidentified Arm'd Bn at BRIGNOLES; the 9th Panzer Div in the MONTPELLIER--NIMES area and 157th Inf Div at GRENOBLE.

3. RECONNAISSANCE AND OBSERVATION MISSIONS.

a. Aviation (To be requested from higher Hq by 1st A/B Task Force).

Observation Roads:
TOULON--LE MUY
BRIGNOLES--LE MUY
SALERNES--LE MUY
COMPS--SUR ARTUBY--LE MUY
SERANON--LE MUY
GRASSE--LE MUY
CANNES-LE MUY

For movement enemy Trs as observed. Negative reports desired. Pin-point photo graphic missions of critical cross roads, strong points upon request.

b. Infantry.

All items of enemy information, to include anti-airlanding obstacles, mine fields, bridge demolitions, large stocks of materials. Observe for movement of Trs to E in direction of LE MUY from LES ARCS--VIDAUBON; NE in direction of LE MUY from TRANS-EN-PROVENCE-LA MOTTE; S indirection of LE MUY from ST MICHEL; W in direction of LE MUY from LE PUGET; N in direction of LE MUY from LES PREYRES (42.4-36.2).

c. Artillery.

Observe for movement and fire of enemy artillery with particular

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reference to the east in direction of LE MUY. Report all troop movements, obstacles, mine fields, dispositions and composition.

d. Engineers.

Report all items of enemy information, to include bridge demolitions, mine fields, large stocks of materials, troop movements, and anti-airlanding obstacles.

x. All Units.

Report movement of enemy troops to include location, disposition, composition, speed, and time. Report by ufgent priority all anti-airlanding obstacles, passive and active; new identifications; appearance and use of chemical materials and movements of armor.

4. MEASURES FOR HANDLING PRISONERS AND CAPTURED DOCUMENTS.

a. Combat team CO's will be responsible for handling, escorting and guarding until collected by Task Force Hq.

b. S-2's of units to which interrogation personnel is attached will inform IPW personnel what information is desired so that these items may be stressed in interrogations.

c. Interrogation of civilians and Allied personnel who have escaped from the enemy will be promptly accomplished and be reported upon as for prisoners of war, with appropriate modifications.

d. All enemy general officers, colonels and separate unit commanders will be sent thru Task Force channels to Army enclosure for special interrogation.

5. MAPS AND PHOTOGRAPHS.

a. SOUTHERN FRANCE 1/25,000*	No
Hq Task Force	30
Hq Co	6
M P Platoon	3
Task Force Artillery Hq	10
Prcht F A Bn	46
Glider F A Bn	26
Inf Prcht Regt Hq	27
Service Co, Prcht Regt	12
Battalion (Prcht)	45
Battalion (Glider)	32
Engr Co	18
Signal Co	18
Medical Collecting Det	5
Anti-Tank Co	12
Surplus (Task Force Reserve available to units)	141

b. SOUTHERN FRANCE 1/50,000	No
Hq Task Force	12
Hq Co	1
M P Platoon	1
Task Force Artillery Hq	6
Prcht F A Bn	9
Glider F A Bn	5
Inf Prcht Regt Hq	5
Service Co	2

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Signal Co	18
Medical Collecting Det	5
Anti-Tank Co	12
Surplus (Task Force Reserve available to units)	141

b. SOUTHERN FRANCE 1/50,000	No
Hq Task Force	12
Hq Co	1
M P Platoon	1
Task Force Artillery Hq	6
Prcht F A Bn	9
Glider F A Bn	5
Inf Prcht Regt Hq	5
Service Co	2

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	No
Battalion (Prcht)	9
Battalion (Glider)	9
Engr Co	6
Signal Co	6
Medical Collecting Det	2
Anti-Tank Co	6
Supplies (Task Force Reserve available to units)	5

*Units covering critical areas will be trebled in convoys issued.

		No
c.	[illegible] 1/100,000	
	[illegible] Task Force	32
	Hq Co	4
	M P Platoon	4
	Task Force Artillery Hq	3
	Prcht F A Bn	36
	Glider F A Bn	36
	Inf Prcht Regt Hq	42
	Service Co	5
	Battalion (Prcht)	19
	Battalion (Glider)	29
	Engr Co	6
	Signal Co	6
	Medical Collecting Det	4
	Anti-Tank Co	10
	Supplies (Task Force Reserve available to units)	317

d. Road Maps and Town Plans, to be concurred.

e. Photographs.

Vertical prints (blow up) of local areas to include DZ's, LZ's and objectives will be issued on basis one per squad leader, and section leader.

f. Target and Point Designation.

Refer to Appendix [illegible], Intelligence, Annex No 1, Hq 6/B TASK FORCE, 3 Aug 1944.

6. COUNTER INTELLIGENCE

See Appendix C[illegible] Counter Intelligence.

7. REPORTS AND DISTRIBUTION.

a. The S-2 Periodic Reports will cover the 24 hour period ending at 2000 daily and will reach T.M.I. Enemy Hq by 2[illegible]

b. The S-2 Prisoner of War Report for the preceding day will be submitted daily by 0800 to Task Force Hq. Duplicates will be issued by units--separately officers and enlisted men (down to enemy battalions). IPW personnel can best accomplish this task.
The attached form (Appendix B) will be used.

c. An intelligence summary will be prepared by this Hq daily and will be distributed to Brigade (Br), regimental and separate Bn cmdrs.

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g. As the situation develops or changes fragmentary reports will be submitted by the fastest available means.

FREDERICK
Commanding.

OFFICIAL:
AC of S, G-2

Appendix A: Target and Point Designation
Appendix B: Prisoner of War Report
Appendix C: Counterintelligence

DISTRIBUTION:
Same as FO No 1.

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APPENDIX 4, Annex No 1 to FO 1, A/B TASK FORCE, 5 Aug, 1944.

Maps: Southern France: 1/25,000, contoured
1/50,000
1/100,000

1. TARGET AND POINT DESIGNATION.

The thrust line system will be used only in conjunction with Map Southern France 1/25,000, contoured, within and between Regimental CT's and separate Battalions.

a. 2nd British Brigade plus attachments:

Land and operate in LZ-O, LZ-O. Will use as point of origin CR at (41.90-42.35) and extension points, the RJ at (47.53-41.45) and the CR at (41.61-37.88). The thrust line from (41.90-41.35) to (47.53-41.45) is designated AB and the thrust line from (41.90-41.35) to (41.61-37.88) is designated AC.

b. 517 R C T plus attachments:

Land and operate in LZ-A. Will use for point of origin RJ at (38.50-40.47) and extension points, CR at (38.50-37.02), and RJ at (43.06-40.51). The thrust line from (38.50-40.25) to (38.50-37.02) is designated AD and thrust line from (38.50-40.25) to (43.06-40.51) is designated AE.

c. 509 Battalion C T plus attachments:

Land and operate LZ-O. Will use as point of origin RJ at (43.94-36.72) and extension points, RJ at (44.10-41.66) and CR at (37.68-36.83). The thrust line from (43.94-36.72) to (44.10-41.66) is designated AF and the thrust line from (43.94-36.72) to (37.68-36.83) is designated AG.

d. 550th Inf Bn plus attachments:

Will use thrust lines as outlined in a, b, c, above, dependent upon mission.

e. 551st Prcht Inf Bn plus attachments:

Same as b, above.

2. Unit of measure: Inches and tenths of inches. EXAMPLE: AE FO12L204. AE denotes that the thrust line from (38.90-40.25) to (43.06-40.51) was used and the map reader went 1.2 inches forward and then 20.4 inches to the left.

3. a. Map coordinates will be used for artillery target designation (point) only on map of FRANCE 1:25,000.

b. Map coordinates can be used on any map of FRANCE for towns, rivers, highways, railroads, elevations, etc.

4. The map template M-1 will be used for designation of artillery targets. The Roman numeral VII will always be used to cover the reference point on the map and the template base line VII-XX will always be placed parallel to the map horizontal grid lines.

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SQ denotes that VII is placed over the RJ (41.89-45.73) *

KK the VII is placed over the CR (41.90-41.35)

LL " " " " " " RivJ (41.90-36.90)

MM " " " " " " RJ (35.24-37.16)

XX " " " " " "RRJ (35.50-41.55)

ZZ " " " " " " RJ (35.30-45.75)

The code letters designating the area as covered by the template should be expressed when using the M-1 template.

*See Overlay attached.

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SUBJECT: P/W REPORT.....

Date:.....1944

TO: : A. C. of S., G-2, Hq. 1st. A B Task Force
(Duplicate to: G#1, Hq 1st. A B Task Force)

ENEMY ORGANIZATION				NUMBER OF PRISONERS			
DIVISION	REGIMENT	BATTALION	COMPANY	OFFICERS	N.C.O.	PWS.*	TOTAL

Period covered by report:

.....(0000-2400 o'clock)
(Date)

*Note: Count German
Corporals as Privates

APPENDIX B
TO Annex No 7
Intelligence Annex No 1
Hq 1st A B Task Force
5 Aug 1944

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APPENDIX C, Annex No 1 to FO 1, A/B Task Force, 5 August 1944.

COUNTERINTELLIGENCE

1. SUMMARY OF COUNTERINTELLIGENCE SITUATION

A. The enemy is reported to be prepairing for a landing in France by organizing and reinforcing his espionage and sabotage agencies to function during landing operations, in the operating areas of our assault forces, and in areas where Allied troops are to be trained and staged. Agents include men and women of several nationalities. Networks of radio transmitters have been established in the target area, manned by agents trained for operations during landings and after retreat of German troops. Extensive evacuation of civilians from the target area may cause the enemy to attempt blocking of our military traffic by refugees. The enemy will attempt to create dissension between the Allies by propaganda; will attempt to cause panic among civilians and troops; may attempt to countermand combat orders to troops, and otherwise hamper our success by every clandestine means at his well organized command.

2. PHASES

a. Planning and Sealing Phases. Maximum attention will be given to security of planning and sealing areas, care of classified documents, discretion of classified personnel, surveillance of the telephone traffic and personal mail of planning headquarters staffs, and security training of all military personnel.

b. Marshalling and Operational Phase. Maximum attention will be given to denying all information of our forces to the enemy, preventing sabotage to installations of value to our forces, headquarters security and special security missions, and preventing all clandestine activities of the enemy which attempt to hamper our success.

3. SPECIAL COUNTERINTELLIGENCE MEASURES.

a. Paroles and Countersigns.

(1) Paroles and Countersigns will be issued by Hq. 1st ABTF for all elements of this command.

(2) Paroles and Countersigns will consist of appropriate words having the same phonetic sound in both English and French.

(3) Paroles and Countersigns will be employed in question and answer manner. For example, the challenger gives the parole (question) and the person challenged replies with the countersign (answer).

(4) To prevent compromise, dissemination dates will be announced by Hq 1st ABTF. Paroles and Countersigns for three days use will be disseminated initially. An overall Countersign will be announced for the entire period of operations.

b. Geographical Code Names.

Refer to Signal Operating Procedure, Hq 1st ABTF.

4. COUNTERINTELLIGENCE AGENCIES.

a. Agencies

(1) Counterintelligence Corps (C.I.C.) U.S. None will be provided with 1st ABTF.

(2) Securite Militaire (S.M.)--French.

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b. Functions.

Counterintelligence personnel will be used to combat espionage, sabotage and subversion affecting the success of 1st ABTF mission. As agents of the Commanding General, 1st ABTF.

c. Cooperation and Freedom of Movement.

(1) French and American counterintelligence personnel attached to Hq 1st ABTF will be given every cooperation by all officers and enlisted men of 1st ABTF in carrying out missions. French and American credentials will be honored at all times.

(2) The freedom of movement of counterintelligence personnel when on assigned missions will not be hindered at any time of day or night by the military police or other military agencies.

5. COUNTERINTELLIGENCE INSTRUCTIONS.

a. Security Training

(1) Security Training will be intensified during the planning, briefing and Marshalling phases. Training ~~the~~ the following will be stressed:

(a) To impress all officers and enlisted men that they are responsible for security within their own units and among all others with whom they come in contact.

(b) To give name, rank, and serial number only, if captured, and refrain from disclosing any information during captivity which might be transmitted to the enemy by listening devices or agents disguised as allied soldiers.

(c) To prevent loose talk and rumor mongering particularly in public places although foreigners in the immediate vicinity appear unable to understand the language used. Every effort will be made to stop rumors rather than to conteract them with others.

(d) To retain no captured documents as souvenirs.

(e) To explain the meaning and necessity of current censorship directives.

(f) To carry into combat areas no diaries, letters classified documents, marked maps, or other material which may disclose troop disposition if lost or captured.

(g) To ignore propaganda disseminated by the enemy designed to create dissension among the Allies, cause loss of morale or panic.

(h) To be alert against attempts by disguised enemy agents to order withdrawals or otherwise contermand combat orders and create confusion.

(i) To prevent the release of personnel other than Allied confined in jails, concentration camps, and prisoner of war inclosures.

(j) To be constantly alert to detect the presence of enemy agents, male and female.

(k) To report to commanding Officers all activities which indicate clandestine activity by the enemy.

(l) To prevent behavior of troops in liberated localities from turning potentially friendly civilians into potential enemies.

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(m) To prevent looting and destruction of captured material.

(n) To be continually alert against booby traps and sabotage.

6. Security of Movements.

(1) When troops are sealed, no personnel will be permitted to leave such areas except on official business. Permission in each case to be specifically authorized by the Commander under whose orders troops are sealed.

(2) Rigid precautions will be instituted to prevent contact between sealed troops and all other persons, military, naval, or civilian.

(3) Telephones will be used only for official matters.

(4) Attention is directed to censorship restrictions forbidding mention in personal correspondence of any change in unit location, by direct statement or inference.

(5) Prior to arrival in Marshalling areas, all units of 1st ABTF will remove all Army, Corps Divisional, and Regimental unit signs or organizational insigna (including shoulder patches) from all classes of individual or organizational uniforms, clothing, baggage, property, and equipment (less vehicles). Unit signs and organization insigna will not be replaced without authority of the Commanding General, 1st ABTF. These instructions do not prohibit the use of coded symbols or signs especially prepared for the operation.

c. Document Security.

(1) Classified documents, including maps containing operational markings, will be given primary security consideration by all headquarters against observation by unauthorized persons, loss or capture.

(2) Loss, capture or compromise of classified documents, codes and ciphers will be reported immediately to the A.C. of S., G-2 1st ABTF.

(3) Files, records, plans and baggage will be secured against loss, pilferage or capture.

d. Civilian Control.

(1) Control of Civilians in Battle Area will be effected to prevent infiltration of enemy agents.

(2) All civilians found attempting to enter or leave areas occupied by 1st ABTF will be treated as civil prisoners and espionage suspects until their innocence has been established.

(3) So long as required by considerations of Military Security, civilians will be prohibited from using inter-urban (long distance) telephone or telegraph communications within the 1st ABTF area.

(4) Blanket passes made out to "The Bearer" and effective for unlimited period will be confiscated whenever found and the bearer turned over to the Military Police.

Procedure to insure security in the use of radiotelegraph, radiotelephone, telephone and other means of communication will be in accordance with Signal Operating Instructions, Headquarters 1st A/B TASK FORCE.

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7. COUNTERINTELLIGENCE REPORTS

a. Spot Reports.

(1) Immediate reports will be disseminated by all units through channels to the A.C. of S., G-2 Ast AFHQ, of enemy sabotage, espionage, and subversion likely to affect operations of other units.

(2) Samples of written or printed material, examples of locally inspired propaganda, types of rumors receiving wide circulation among troops and all other types of enemy inspired propaganda are proper subjects for spot reports.

FREDERICK,
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ANNEX: 4
TO FO: 1

TOP SECRET BIGOT ANVIL

AIR MOVEMENT TABLE

HQ 1ST AB TASK FORCE
LIDO DI ROMA, ITALY
0800 5 August 1944

Serial	TC Unit	TC Serial CO	Planes	Gli	P/Racks ea Plane	AB Troops	AB Troops C O	Depart From	Obj	Hr of Depart (Approx)	Hr over Object	Code Nam
1	Path finder	Lt Col CROUCH	3	-	-	509 (3 Teams)		MARCIGLIANA	DZ-C	0030	0323	
2	"	Lt Col CROUCH	3	-	-	517 (3 Teams)		MARCIGLIANA	DZ-A	0035	0330	
3	"	Lt Col CROUCH	3	-	-	2D BRIG (3 Teams)		MARCIGLIANA	DZ-O	0040	0334	
4	442 Gp	Lt Col SMITH	45	-	6	½ 509 CT	Lt Col YARBOROUGH	FOLLONICA	DZ-C	0136	0423	ALBATROSS
5	441 Gp	Lt Col KERSHAW	45	-	6	½ 509 CT	Major COOPER	GROSSETTO	DZ-C	0141	0428	ALBATROSS
6	440 Gp	Lt Col KREBS	45	-	6	517 2D BN (+)	Lt Col SEITZ	OMBRONE	DZ-A	0146	0435	ALBATROSS
7	439 Gp	Lt Col YOUNG	45	-	6	517 3D BN (+)	Lt Col ZAIS	ORBETELLO	DZ-A	0151	0440	ALBATROSS
8	437 Gp	Lt Col FRENCH	45	-	6	460 FA (-)	Lt Col CATO	MONTALTO	DZ-A	0144	0445	ALBATROSS
9	438 Gp	Lt Col DONALDSON	45	-	6	517 1ST BN (+)	Major BOYLE	CANINO	DA-A	0149	0450	ALBATROSS
10	62 Gp	Lt Col EDRIS	36	-	6 (Br)	2D BRIG HQ	Brig PRITCHARD	GALERA	DZ-O	0133	0454	ALBATROSS
11	62 Gp	Lt Col EDRIS *	27	-	6 (BR)	6 PARA BN 5 PARA BN	Brig PRITCHARD Brig PRITCHARD	GALERA	DZ-O	0138	0459	ALBATROSS
12	64 Gp	Col CERNEY	36	-	6 (Br)	4 PARA BN	Lt Col COXEN	CIAMPINO	DZ-O	0143	0504	ALBATROSS
13	64 Gp	Col CERNEY *	27	-	6 (Br)	5 PARA BN	Lt Col COXEN	CIAMPINO	DZ-O	0148	0509	ALBATROSS
14 15	435 Gp	Col McNEES	35	35 (Horsa)	-	300 AT BTRY (-) 64 L ARTY BN (-)	Major POTTER	TARQUINIA	LZ-O	0457	0814	BLUEBIRD
15	436 Gp	Lt Col WILLIAMS	36	26 ~~16~~ 11	- -	64 L ARTY BN (-) SIG CO, DIV HQ (-)	Major DUNCAN Major DUNCAN	VOLTONE	LZ-O	0505	0822	BLUEBIRD
16	437 Gp	Lt Col FRENCH	41	-	4	551 BN	Lt Col JOERG	MONTALTO	DZ-A	1509	1810	CANARY
17	442 Gp	Lt Col SMITH	48	48	-	550 BN (-)	Lt Col SACHS	FOLLONICA	LZ-O	1516	1819	DOVE
18	441 Gp	Lt Col KERSHAW	48	12	-	1 CO 550	Major WILSON		LZ-O	1524	1827	DOVE
				36	-	602 FA BN (-)	Major HUNT	GROSSETTO	DZ-A			
19	440 Gp	Lt Col KREBS	48	30	-	602 FA BN (-)	Major DRESSLER	OMBRONE	DZ-A	1532	1835	DOVE
				18	-	2 PLAT 442 AT	Lt SCOTLAND					
20	439 Gp	Lt Col YOUNG	47	26	-	442 AT CO (-)	Lt FARRIS	ORBETELLO	DZ-A	1540	1843	DOVE
				5	-	SIG CO (-)	Lt INGUI		LZ-O			
				16	-	CO "A" CML (-)	Lt GOODELL		LZ-O			

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ANNEX: 4
TO FO: 1

TOP SECRET BIGOT ANVIL
AIR MOVEMENT TABLE

HQ 1ST AB TASK FORCE
LIDO DI ROMA, ITALY
0800 5 August, 1944

Serial	Unit	TC Serial CO	Planes	Cli	P/Racks ca Plane	AP Tro	AB Troops C O	Depart From	Obj	Hr of Depart (Approx)	Hr over Object	Code Name
21	Gp	Lt Col DONALDSON	47	14	-	2D PLT CO CHL	Lt PERROTT	CANINO	LZ-O	1534	1851	DOVE
				8	-	SIG CO (-)	WO GIORGIA					
				25	-	MED CO	Major SMITH					
22	62 Gp	Lt Col EDNIS	47	9	-	MP PLT	Lt MAYO	GALERA	LZ-O	1518	1859	DOVE
				7	-	DIV HQ CO (-)	Sr OFFICER					
				25	-	807 ENG CO (-)	Capt SMITH					
23	64 Gp	Col CERNEY	47	10	-	807 ENG CO (-)	Lt BLOCK	CAMPINO	DZ-A	1526	1907	DOVE
				33	-	CO "D" CML	Capt LAKE					
				1	-	ORD DET	Lt CLARK					
24	62 Gp		46		6	SUPPLIES	Lt Col BASSETT	TARQUINIA	DZ-A	0457	0813	EAGLE
25	64 Gp		58		6	SUPPLIES	Lt Col BASSETT	VOLTONE	DZ-C	0502	0818	EAGLE

@ 2 C-47 Planes to be used by CG AB TASK FORCE.

NOTE:
1. Serials 1-23 flown on D Day.
2. Serials 24, 25 flown on D + 1. (Earlier on call)

OFFICIAL:

Ellis
ELLIS
G-3

FREDERICK
CG

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HEADQUARTERS AIRBORNE TASK FORCE
Office Artillery Officer

5 August 1944

Annex No. 5

TO : F. C. Hq ABTF 5 August 1944

FIELD ARTILLERY

1.. a. See Annex No. 1 (G-2) to F.O. 1.

b. See Annex No. 2 (G-2) to F.O. 1 and Opns Overlay, Incl No. 1 hereto.

2. See Par 2. F.O. 1.

Field Artillery supports operations of the Force.

3. a. 460th F.A. Bn Prcht.

1) Attached 517th RCT Prcht.

2) Direct support 517th Inf. Prcht.

3) Normal zone: Zone of action of supported unit with priority to approaches to Force position from the southwest and the Draguignan - La Motte Road. Prepared to reinforce fires of 463d F.A. Bn. Prcht.

4) Position Area: See Opns Overlay, Incl. No. 1.

b. 463d F.A. Bn. Prcht.

1) Attached 509th BCT Prcht.

2) Direct Support 509th Inf. Bn. Prcht.

3) Normal Zone: Zone of action of supported unit. Prepared to reinforce fires of 460th F.A. Bn. Prcht. and 64th Light Btry (Br); priority to approaches to Force position from North and East. Prepared to fire on Le Muy - Ste. Maxime Road.

4) Position Area: See Opns Overlay, Incl No. 1.

c. 602d F.A. Bn Glider.

1) Direct support 551st Inf. Bn. Prcht.

2) Normal zone: Zone of action of supported unit. Prepared to reinforce fires 460th F.A. Bn. Prcht; priority to approaches to Force position from the North West. Prepared to furnish direct support to 550th Inf. Bn. Glider when committed.

3) Position area: See Opns Overlay, Incl No. 1.

d. 64th Light Battery (Br)

1) Direct support 2d. Indep. Prcht. Brig. (Br)

2) Normal zone: Zone of action supported unit. Prepared to reinforce fires of 460th and 463d F.A. Bns. Prcht on Force order. Priority to approaches to Force position from the South West.

3) Position area: See Opns Overlay, Incl No. 1.

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e. Co. A, 2d. Cml. Bn.

1) Attached 2d. Indep. Prcht. Brig. (Br)

2) Direct support 2d. Indep. Prcht. Brig. (Br). Initially in Brigade reserve, vicinity position area 64th Lt. Btry. (Br) See Opns Overlay, Incl. No. 1.

f. Co. D. 83d. Cml. Bn.

1) Attached 517th RCT Prcht.

2) Mission and positions: See F.O. 1, 517th RCT. 5 August 1944.

g. A. T. Co. 442d. Inf. Regt.

1) Attached 517th RCT Prcht.

2) Mission and positions: See F.O. 1, 517th RCT. 5 August 1944.

x. 1) Position areas occupied upon arrival; alternate positions selected for all batteries.

2) Minimum range lines: 1000 yards in advance of friendly troops.

3) Maximum range line: Prescribed at 2 hour intervals beginning at H hour, initially none. No firing in zone of action of another combat team without authority of Force Commander.

4) Firing chart: Map, France 1:25000 sheets XXXIV - 44. 3 and 4, 7 and 8; XXXV - 44. 1 and 2, 5 and 6.

5) Base and check points as selected by battalions; base points of one battalion to be used as check points by others where practicable.

6) Registration: 460th and 463d F.A. Bn. Prcht.: One battery per battalion only after presence in area is disclosed by firing of direct support mission on call of supported unit. 602d F.A. Bn. Glider, no restrictions.

7) Battalions prepared to fire concentrations Nos. 1 to 99 inclusive on call from Div. Arty. See Incl. No. 2.

8) BINGO denotes Div. Arty. concentration - all battalions fire at time specified.

9) Survey:
Battalion place marks by inspection; initiated immediately upon arrival, extended and improved as time permits.
460th F.A. Bn. Prcht. initiates survey for 602d F.A. Bn. Glider.

10) Ammunition: Minimum initial load of 120 RPG. Expenditures minimum commensurate with accomplishment of mission. Concentrations will be fired at center range and not exceed 3 RPG.

11) Concentration numbers:

460th F.A. Bn. Prcht. 100 to 199 incl.
463d F.A. Bn. Prcht. 200 to 299 incl.
602d A.A. Bn. Glider 300 to 399 incl.
64th Lt. Btry. (Br) 400 to 499 incl.

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12) Liaison.

a) 460th F.A. Bn. Prcht: as prescribed by RCT Comdr. Min. 1 SCR-609 on Bn. frequency of 463d F.A. Bn. Prcht.

b) 463d F.A. Bn. Prcht: as prescribed by Bn. C.T. Comdr. and with 2d. Indep. Prcht Brig (Br)

c) 602d. F.A. Bn.: with 505th. Inf. Bn. Prcht. and 460th. F.A. Bn. Prcht; with 550th Inf. Bn. Glider when directed.

d) 2d. Indep. Prcht. Brig. (Br): with 509th Bn. C.T. and 517th RCT (FOO parties in lieu of liaison sections)

13) L-5 Airplanes available H to H/3 through Div. Arty. Call and adjust on Army A frequency when notified by Div. Arty. of their availability. One L-4 airplane per battalion after preparation of beach air-strip; call on Army A, adjust on battalion frequency. Beach air strips will be utilized initially.

14) AA and AT protection of respective areas by battalion; AT defense priority to Argens River valley approaches from the South West.

15) Prearranged and defensive fires by coordination with supported unit commanders. Report locations to Task Force C.P. for coordination. See Incl. No. 2 for consolidation and assignment.

16) Naval and Corps Arty:

a) One US Naval and one British SFCP will accompany 509th BCT for adjustment of naval supporting fires.

b) One British SFCP will accompany 2d. Indep. Prcht Brig. (Br) for above purpose.

c) One British FOO party will accompany 509th BCT and each battalion of 2d. Indep. Prcht. Brig. (Br) for adjustment of fire of Corps Arty. units landed with 45th and 36th Divisions.

d) Requests for reinforcing fires by Naval and Corps Arty. units from 460th and 602d. F.A. Bns. will be made to Div. Arty.

4. See Adm O No. 1. - Annex No. 1.

5. a) See Incl. No. 3 for plan of radio communication. SOI Index 1 - ( ) effective 1 August 1944 in force. D Day items - 7 August 1944.

b) Observation in vicinity position areas. Zones of responsibility; 460th, 463d, F.A. Bns. Prcht. and 64th Lt. Btry: Zone of action of supported unit. 602d. F.A. Bn. Glider: See Opns Overlay, Incl. No. 1.

c. Command Posts.
Force and Force Arty: See Opns Overlay, Incl. No. 1.
Battalions: To be reported promptly.

By Command of Brigadier General FREDERICK:

OFFICIAL: JOHN T. ELLIS, Jr.,
Lt Colonel, GSC
ACS G-3

CHESTER B. DeGAVRE
Lt Colonel, GSC
Chief of Staff

3 INCLOSURES
1. Operations Overlay; 2. Fire Plan; 3. Radio Plan

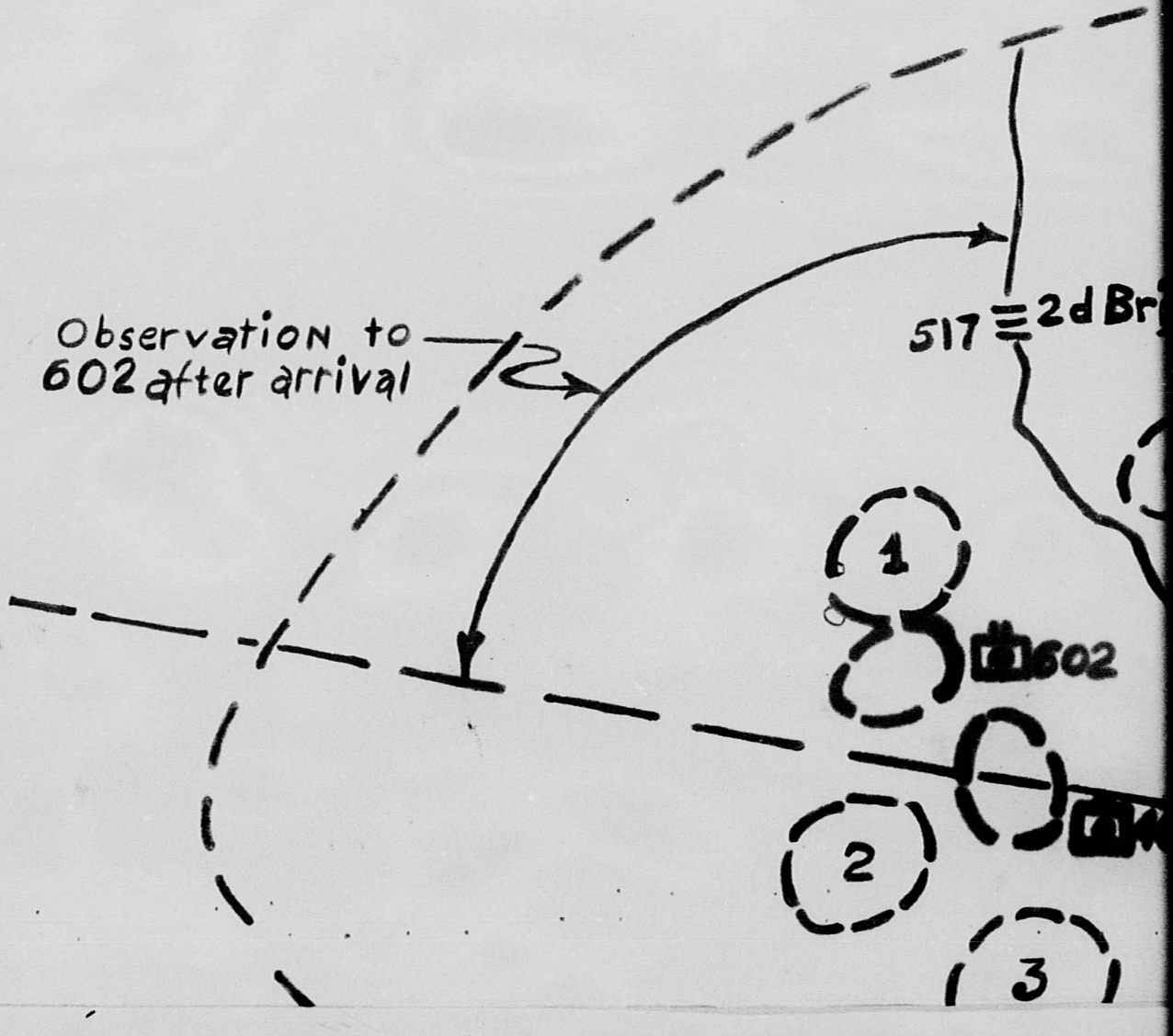
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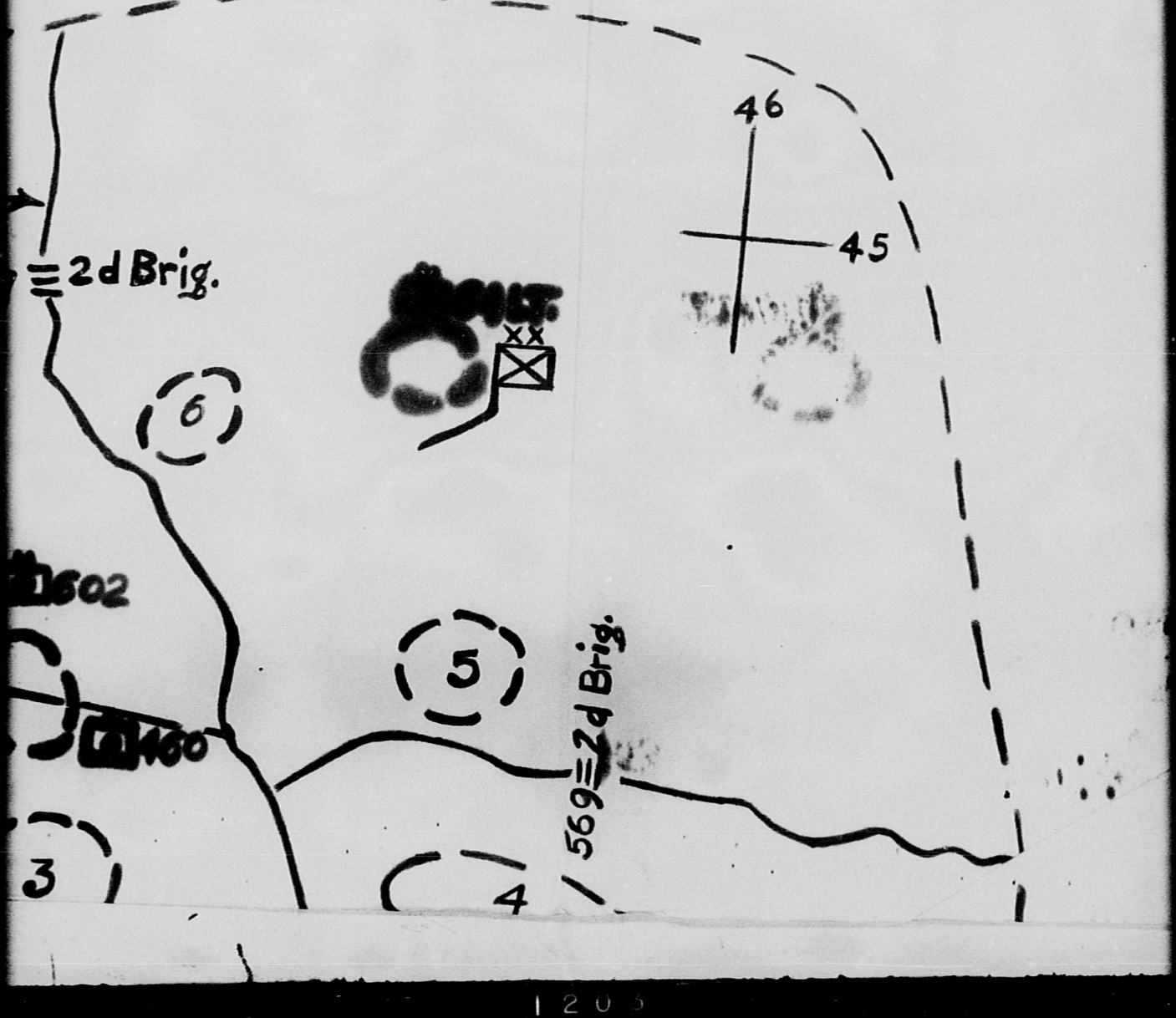
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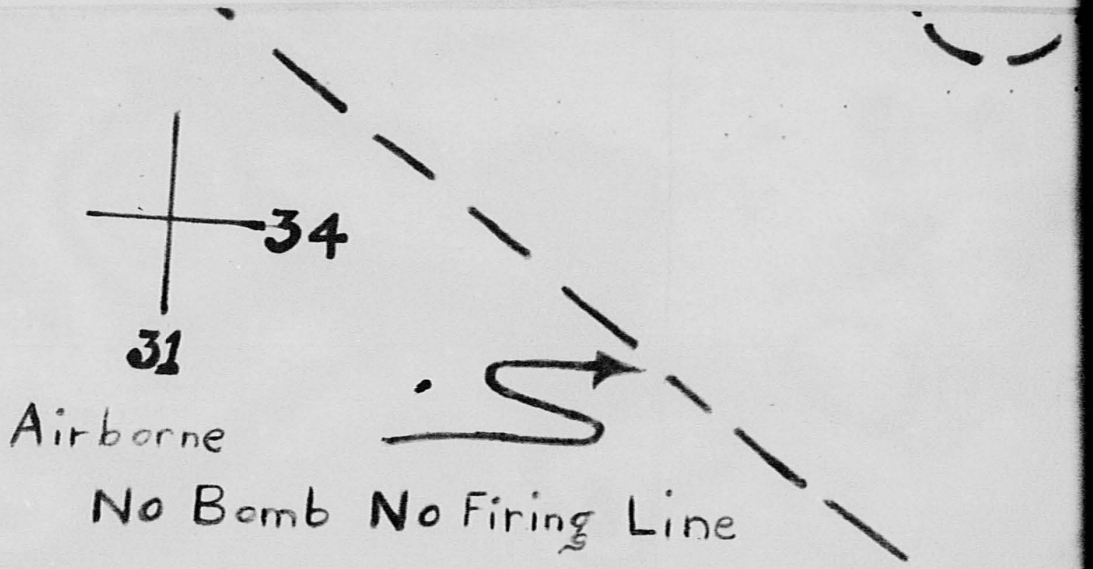
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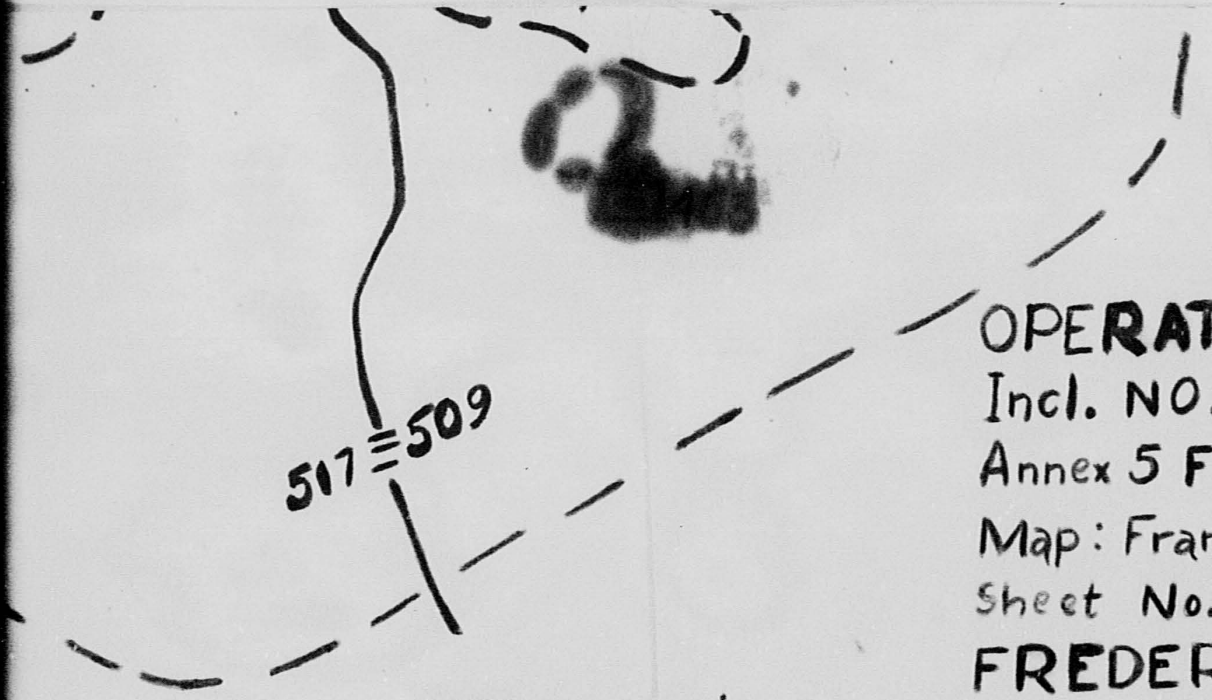
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OPERATION
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Annex 5 FO 1 AE
Map: France 1:5
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OPERATION OVERLAY

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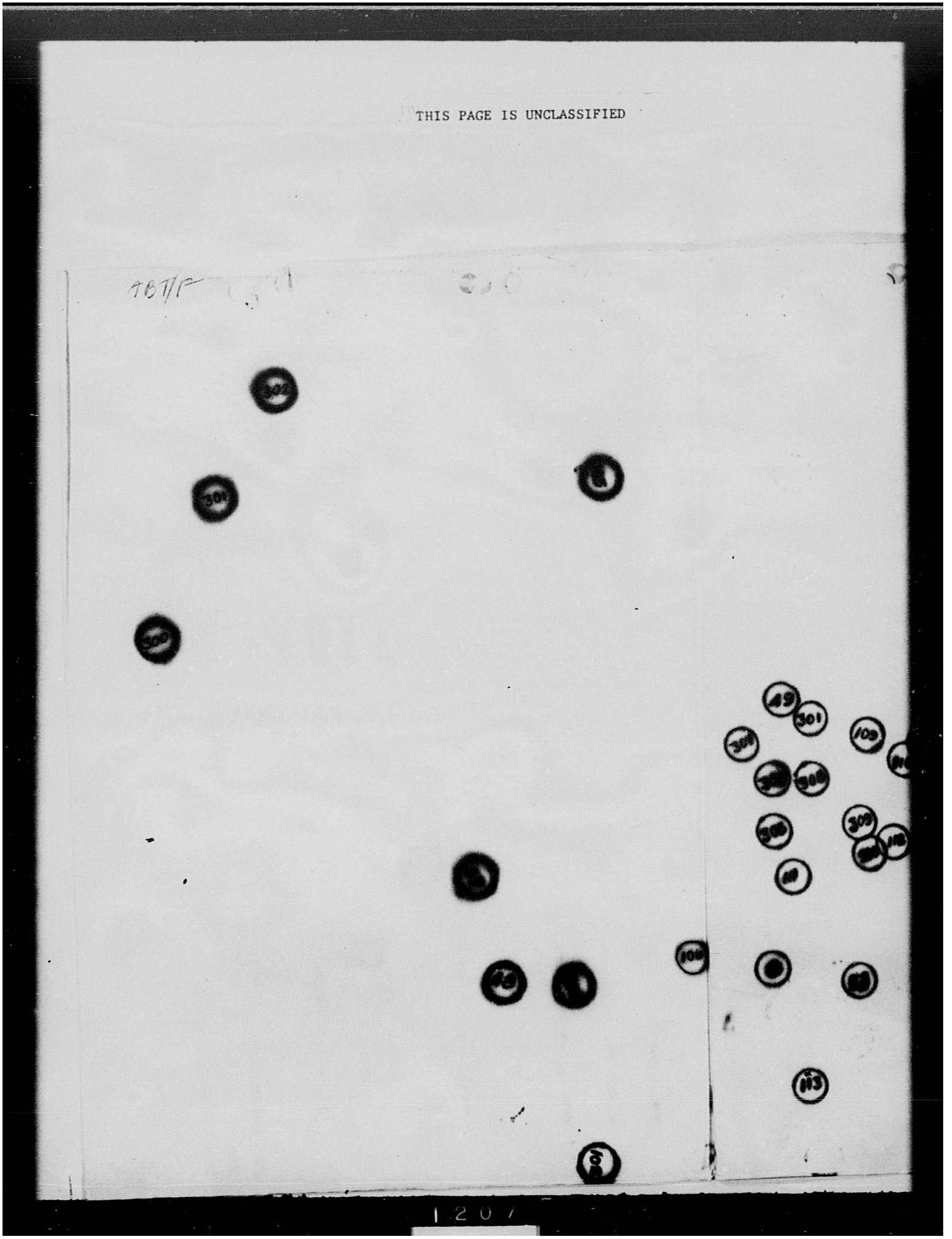
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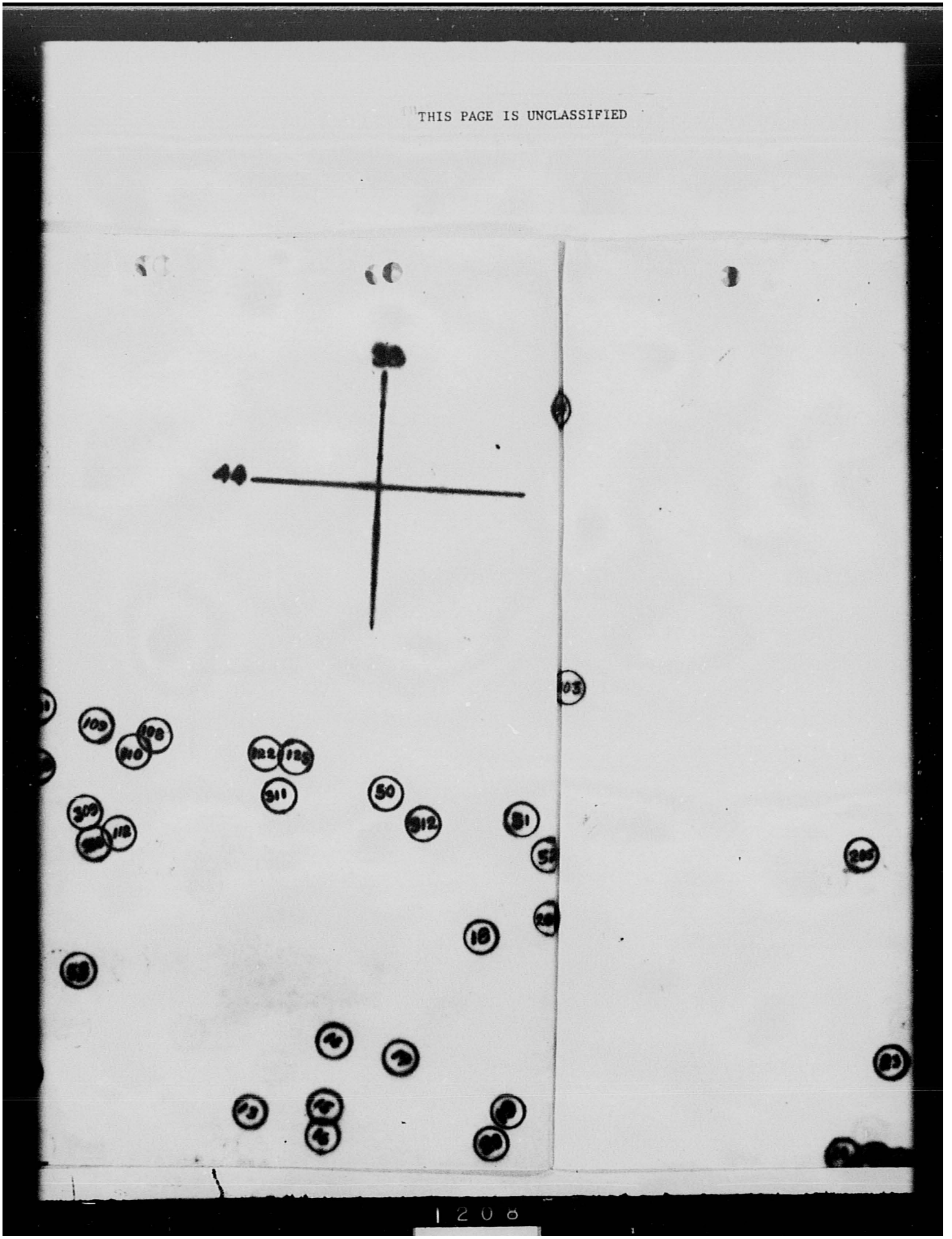
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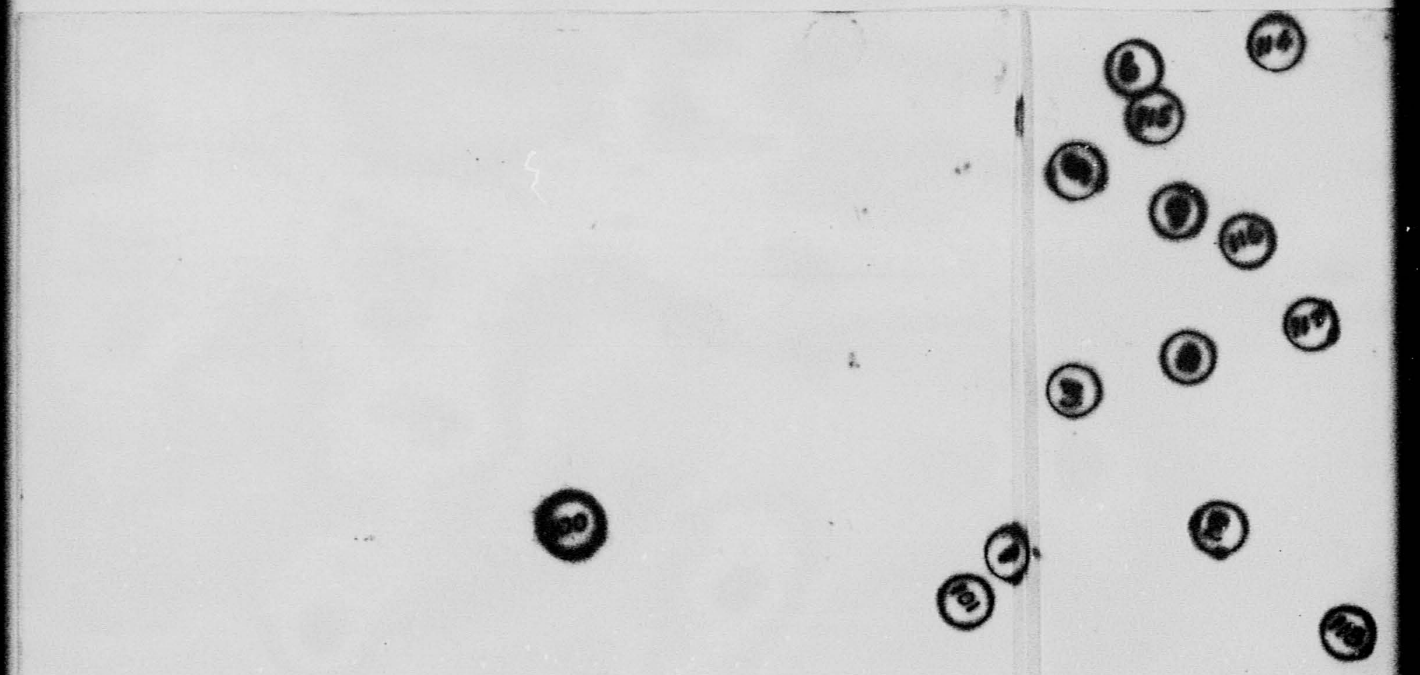
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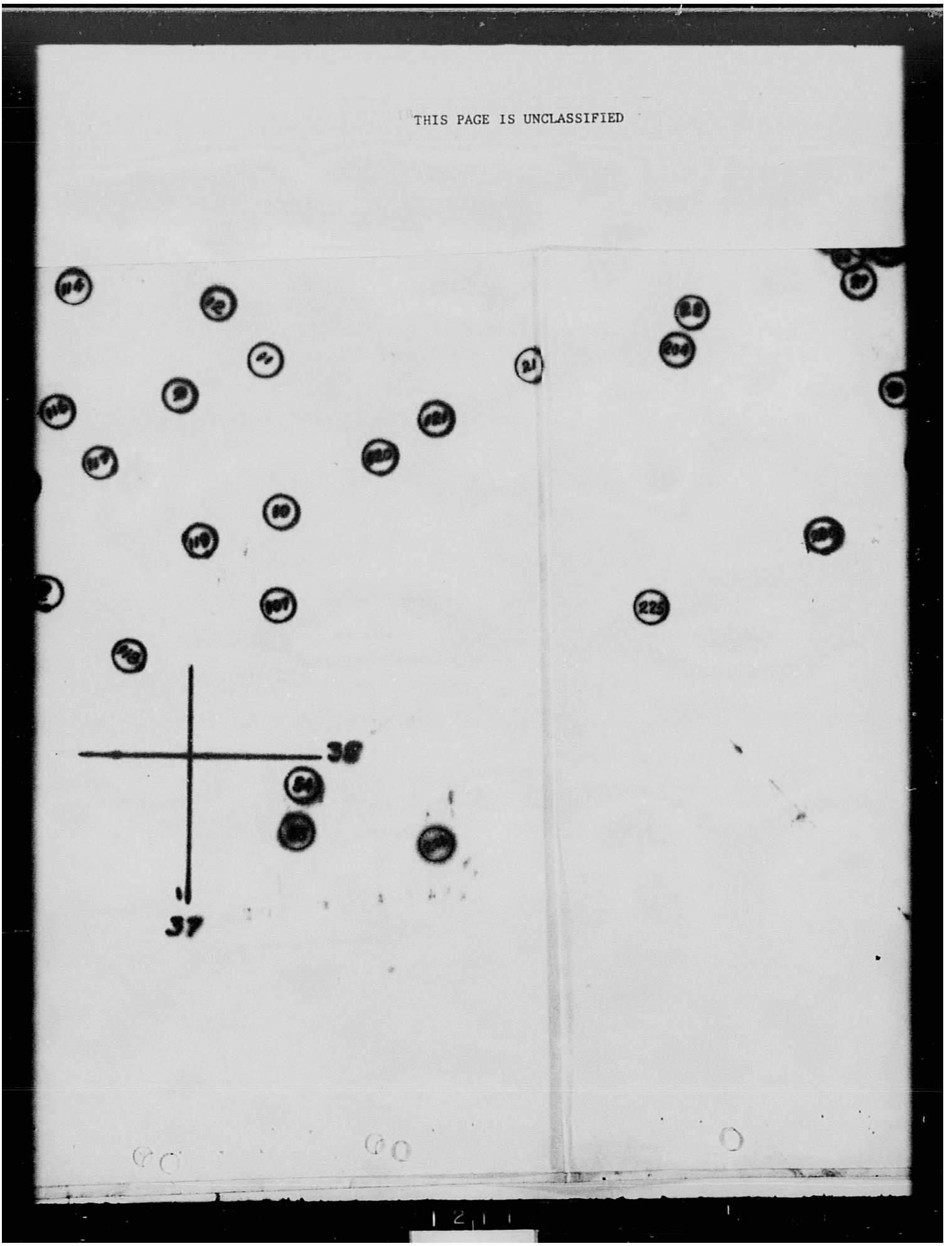
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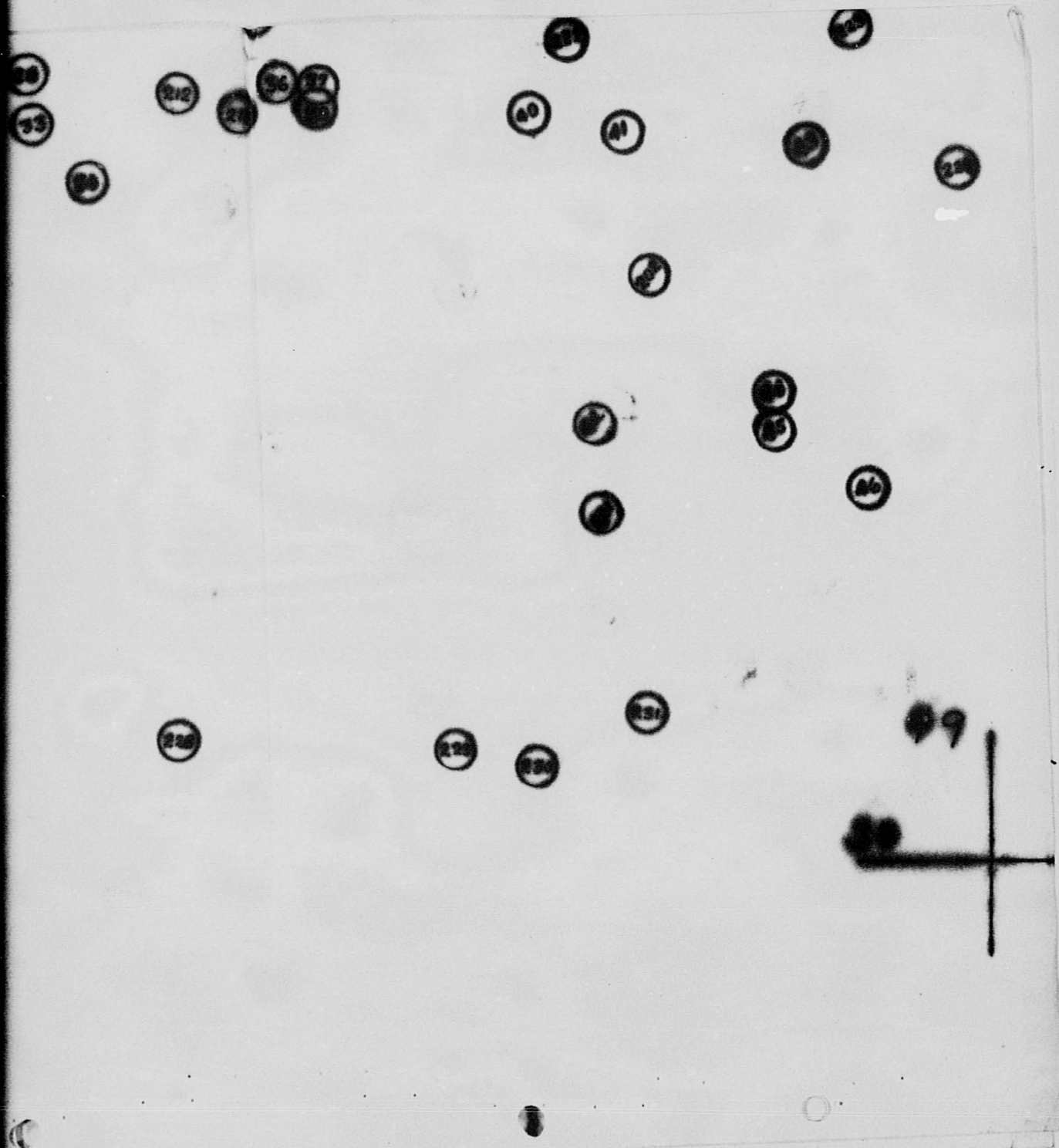
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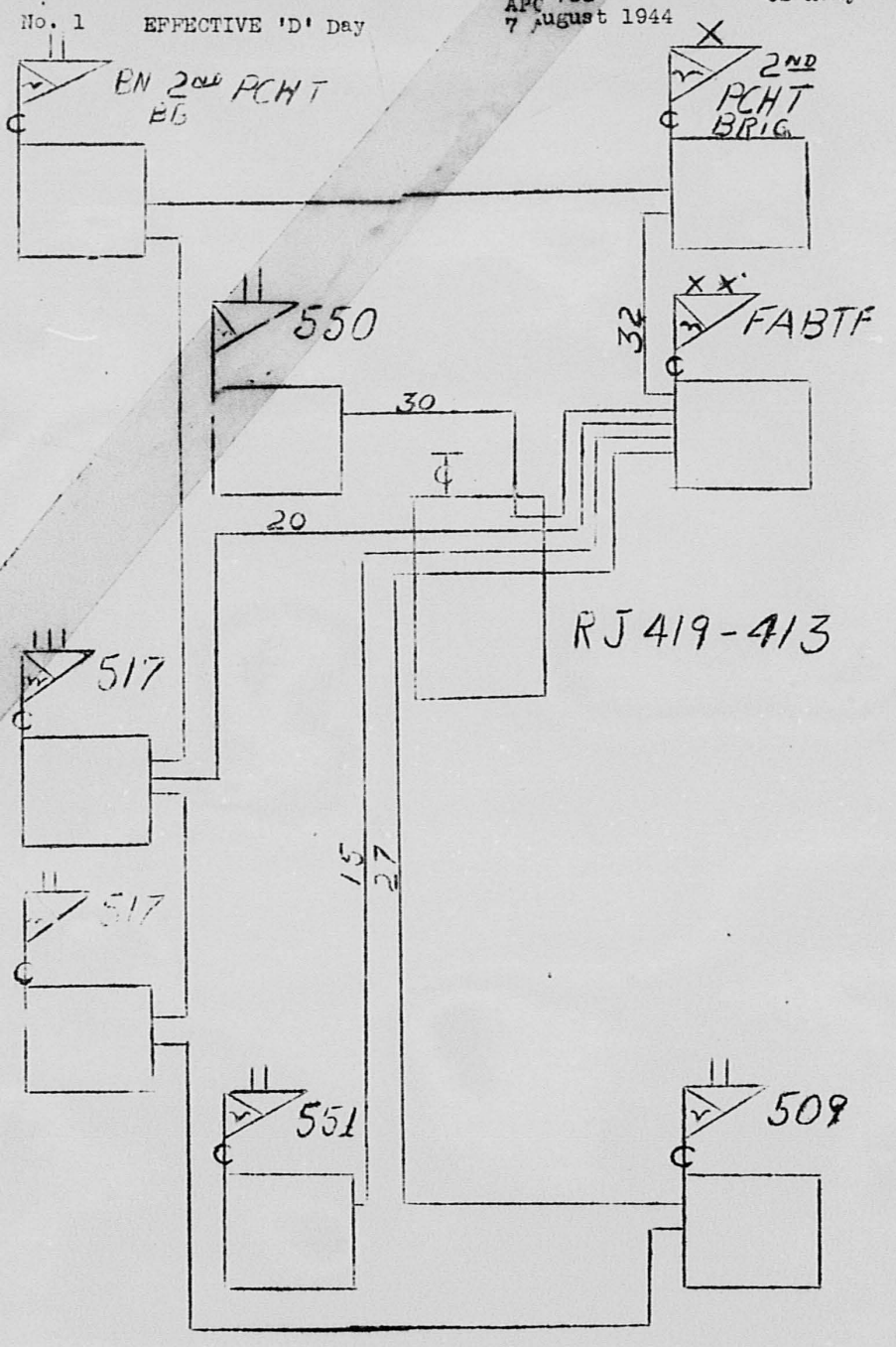
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PENDIX 'B' to Annex No. 7
No. 1 EFFECTIVE 'D' Day

Hq, 1st Airborne Task Force
APO 758 US Army
7 August 1944



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HEADQUARTERS AIRBORNE [illegible] FORCE
Office Artillery Officer

5 August 1944

Incl. No. 3

TO , Annex No. 5. (F.A.) F.O. No. 1, Hq ABTF

1. Normal Battalion communication nets will be installed.

a SCR - 284.

(1) Each battalion will install and operate radio set SCR-284 in a directed net. NCS Div Arty station when installed. Initially 460th F.A. Bn will control. Principal frequency 4115, alternate frequency 4190. These frequencies are those of 45th and 36th Div Artys respectively. Subsequent instructions reference operation on 36th Div Arty frequency to be issued by Div Arty.

(2) This net will be utilized to:

a. Report ABTF no fire lines and receive reports of 45th and 36th Div Arty's no fire lines at two (2) hour intervals beginning at H hour.

b. Obtain fire support from 45th and 36th Div Artys adjusted by FOs of battalion in whose zone of action fire is to be placed.

c. Maintain contact and exchange information with 45th and 36th Div Arty.

b SCR-609

(1) Each battalion command post will assign sets to guard both Army A (27.4 mcs) and Div Arty (32.7 mcs) frequency channels; Div Arty station will act as NCS of both nets when in position. Initially 460th F.A. Bn will control.

(2) Battalion frequency will be set up on one position of all sets of each battalion.

(3) Liaison airplane sets will set up on Army A and the appropriate battalion frequency.

(4) Call signs of all battalions, their liaison airplanes and light battery (Br) will be furnished all operators of sets normally operating on ARMY A and Div Arty channels by Bn Com Os.

(5) Request Div Arty for permission to adjust fire on other than battalion channel.

(6) Reserve call signs shown in SOI Code Sign Extracts will be assigned liaison airplanes.

(7) A minimum of one 609 set of 460th F.A. Bn Prcht will guard the battalion channel of 463d F.A. Bn Prcht (30.4 mcs) for liaison purposes.

2. Time will be synchronized at 1200 and 1800 daily by Div Arty on 32.7 mcs.

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3. The following call signs and frequencies are furnished for establishing contact with the units concerned:

	Frequency (mcs)	Call signs AUGUST.					
		13	14	15	16	17	18
36th Div Arty	27.0	ONH	BBW	AVR	CCS	EET	MUZ
45th Div Arty	28.8						
VI Corps Arty	33.8	SMH	UMH	VUB	RKR	JIJ	AIK

4. Cardinal Point method of correction will be used by U.S. FOs adjusting 64th Lt Btry and by Br FOs in adjusting U.S. Batteries.

5. FDC of battalion in whose area Div Arty concentration is fired is responsible for correction of data of all battalions firing. Use Div Arty channel.

By Command of Brigadier General FREDERICK:

CHESTER B. DeGAVRE
Lt Colonel, GSC
Chief of Staff

OFFICIAL: JOHN T. ELLIS, Jr.
Lt Colonel, GSC
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Hq, 1st AB Task Force,
Lido di Roma, Italy
5 August 1944

Annex 6 to FO 1

GLIDER PILOTS

(a) Glider Pilots, on landing, will be attached initially to the Combat Units which they pilot to the LZ's and will be assigned combat missions by unit commanders.

(b) As soon as practicable, US Glider pilots will be moved to Task Force CP for employment and evacuation.

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Auth: CG, FABTF
Init.
Date 7 Aug 44

Hq 1st Airborne Task Force
APO 758 US Army
7 August 1944

ANNEX # 7 to FO # 1

SIGNAL COMMUNICATIONS

1. Situation.

a. See FO 1

b. CP's

	Locations
1st A/B Task Force	To be announced
2nd Pcht Brig (Br)	To be reported
517th Pcht RCT	To be reported
509th Pcht Bn CT	To be reported
551st Pcht Bn	To be reported
550th Glider Bn	To be reported

c. Axis of signal communication: To be announced.

2. Plan

a. The 512th Signal Company will install, maintain and operate the signal system as follows:

(1) Message Center: SOP

(a) Upon establishing CP's, each unit will send location on an overlay to Hq ABTF.

(b) As soon as practicable scheduled motorcycle messenger service will be established by Hq ABTF.

(2) Radio

(a) Communications with VI Corps, 36th, 3rd and 45th Divisions will be provided by Hq ABTF.

(b) Communications with Hq ABTF Rr Ech will be established as soon as practicable after landing.

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(c) Communications to 2nd Pcht Brig Rr Ech and Br LnO at 36th Div Hq will be provided by 2nd Pcht Brig.

(d) Communications will be established between the 2nd Pcht Brig and the 142nd Inf (36th Div).

(e) Communications will be established between 517th RCT and the 180th Inf Regt (45 Div).

(f) Communication between Seventh Army (HENRICO) and Hq ABTF will be established as soon as practicable after landing.

(g) FA O and FA Bn's ABTF will communicate with 36th and 45th Div Arty by entering respective nets.

(h) Forward observer officers (FOO's) operating with the 2nd Pcht Brig and the 509th Pcht Bn will communicate with the 36th and 45th Div Hq by a laision net to be established as soon as possible after landing.

(i) One (1) Naval Shore Fire Control party (NSFC), equipped to communicate to firing ships, will operate from the 509th Pcht Inf Bn sector.

(j) Two (2) British Naval Forward Observer Officers (NFOO's), one (1) in the 509th Pcht Inf Bn sector and another in the 2nd Pcht Brig sector, will also work firing ships.

(k) Prior to D -5 all radio equipment will be carefully checked and tested for proper operation, including calibration. All sets will be set and locked on their first operating frequency.

(3) Radio Teams

(a) See Appendix 'A' for Radio Diagram

(b) The following radio sets and operating teams will land from glider serial fifteen (15) at approximately 0822B on 'D' Day. They will report into designated nets as soon as possible after landing.

Sets	Nets	Operators	Frequency
SCR-284*	ABTF Command Net	2	2025 KC/S
SCR-193*	VI Corps Command Net	2	2105 KC/S
SCR-499#	ABTF Rear Echelon Net	3	7480 KC/S
SCR-284	Seventh Army Command Net	2	2875 KC/S
SCR-284	ABTF Intelligence Net	2	3945 KC/S
SCR-300	ABTF Anti-Tank Warning Net	2	Channel 13

(c) The following radio sets and operating teams will land from

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glider serials twenty (20) and twenty-one (21) at approximately 1843B on 'D' Day.

Sets	Nets	Operators	Frequency
SCR-499#	VI Corps Command Net	5	2105 KC/S
SCR-193*	Seventh Army Command Net	4	2875 KC/S
SCR-193*	ABTF Command Net	2	2025 KC/S
SCR-300	Spare	2	
SCR-284	Spare	3	
SCR-499	Spare	0	

(4) Wire

(a) See Appendix 'B'.

(b) Two (2) wire installation teams and one (1) telephone operator team will land from glider serial fifteen (15) at approximately 0822B on 'D' Day. As soon as ABTF CP is established a switchboard TC-12 will be installed. When CP's of major units are established wire circuits using W-130 will be established in the following priorities:

Trunks	Locals
1. 1 CCT to CP 517 RCT	Msg Cen - 11
2. 1 CCT to CP 2nd Pcht Brig	CG - - - 6
3. 1 CCT to CP 509th Pcht CT	C/S - - - 5
4. 1 CCT to CP 551st Pcht CT	G-3 - - - 3
5. 1 CCT to CP 550th Glider CT	G-2 - - - 2
6. Others to be announced	G-4 - - - 4
	SO - - - 10
	G-1 - - - 1
	Arty O - 22
	Public - 33

The remainder of the wire personnel and equipment will be contained in serials twenty (20) and twenty-one (21) landing at 1843B and 1851B, respectively.

(5) Codes and Cipher

(a) SIGABA: None

(b) Converter M-209: Joint SIGSOT #17 from 0822B on 'D' Day to 0001B, D+5.

(c) Combined Assault Code: CCBP 0122-B6

(d) AFCODE: Current SOI

(e) Prearranged Message Code: To be issued by Signal Officer for use until otherwise notified. No other prearranged message code will be employed during this period.

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(f) Two (2) code and cipher teams will land from glider serials fifteen (15) and twenty (20) at 0822B and 1843B on 'D' Day.

(6) Signal Supply: See Administrative Order # 1.

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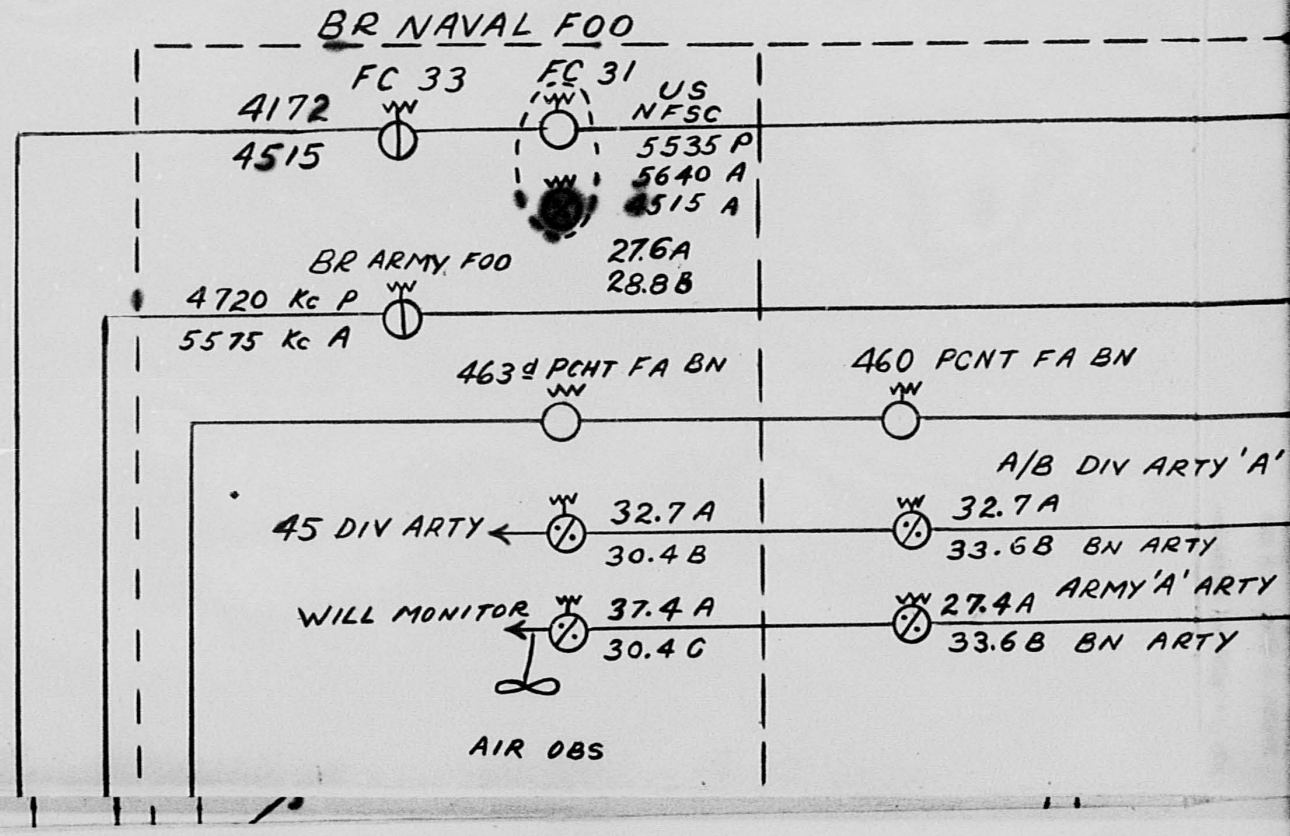
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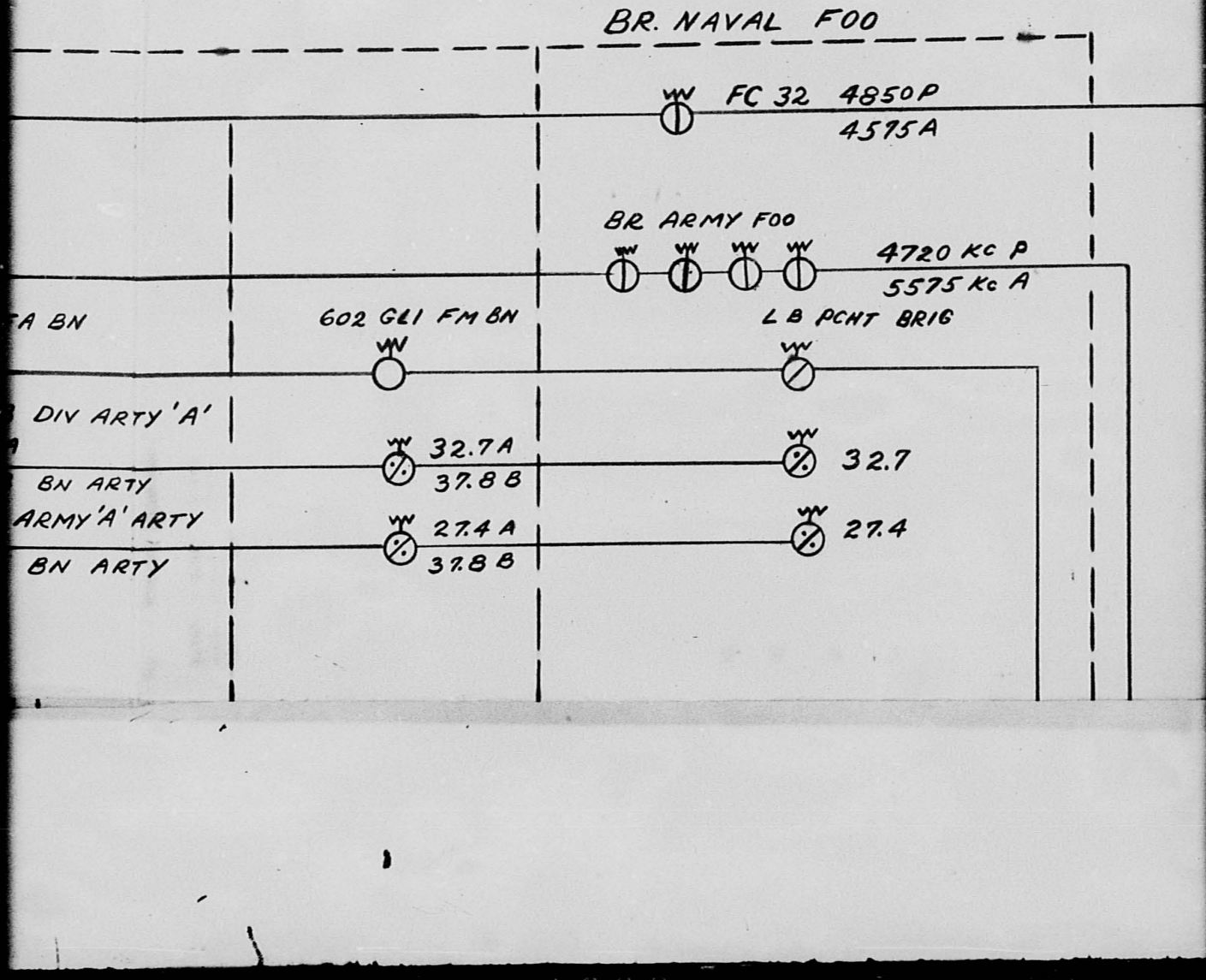
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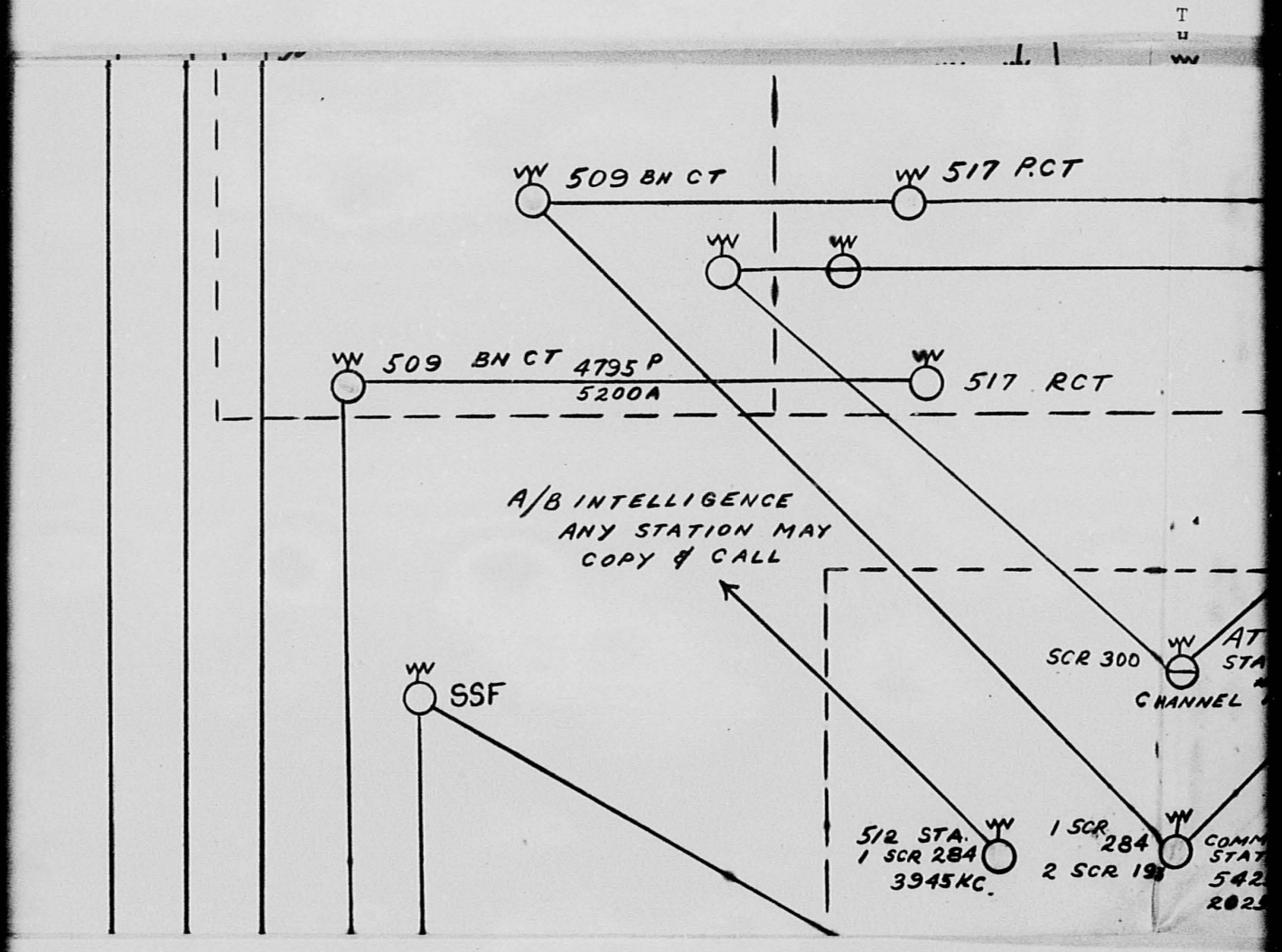
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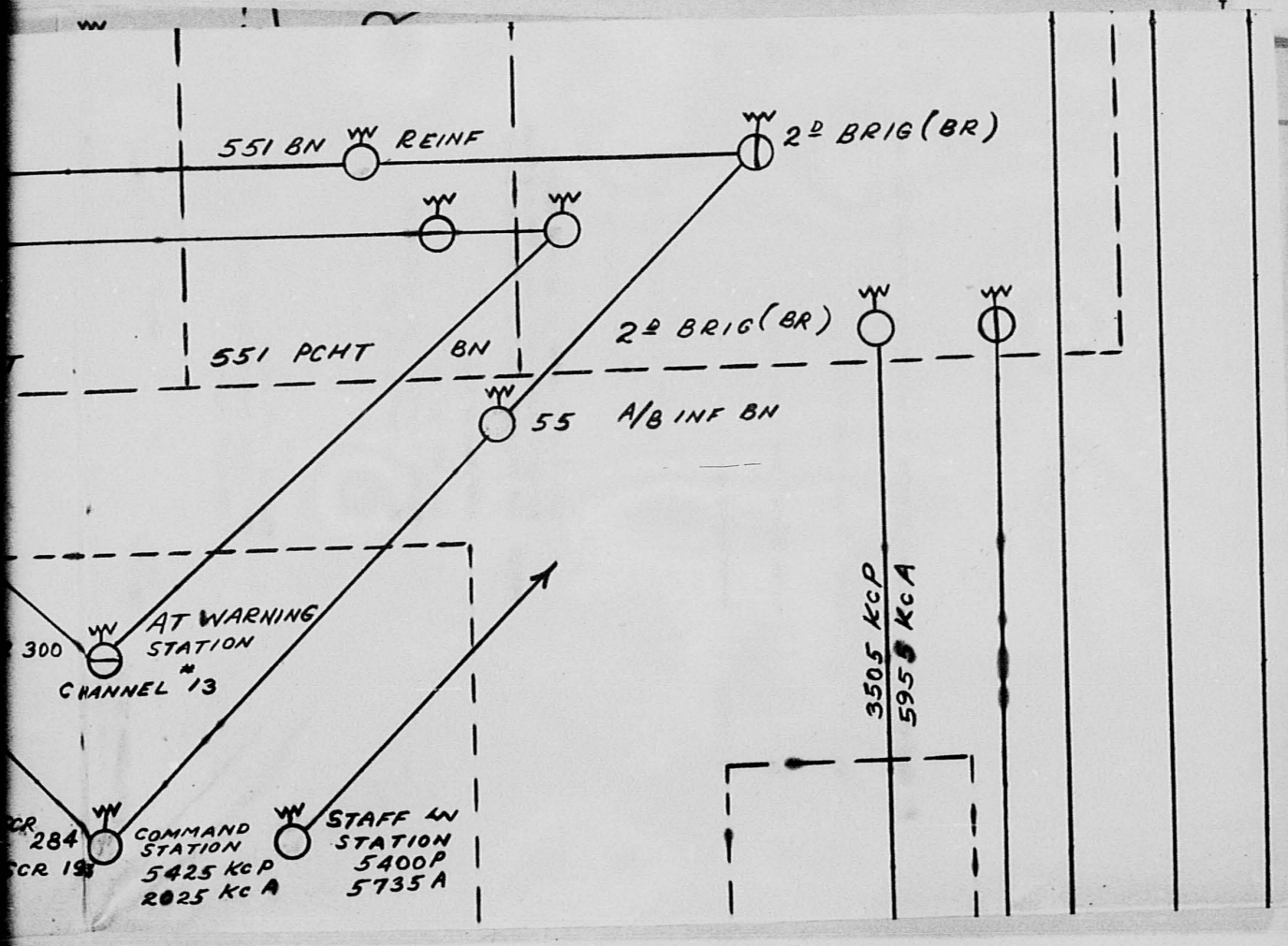
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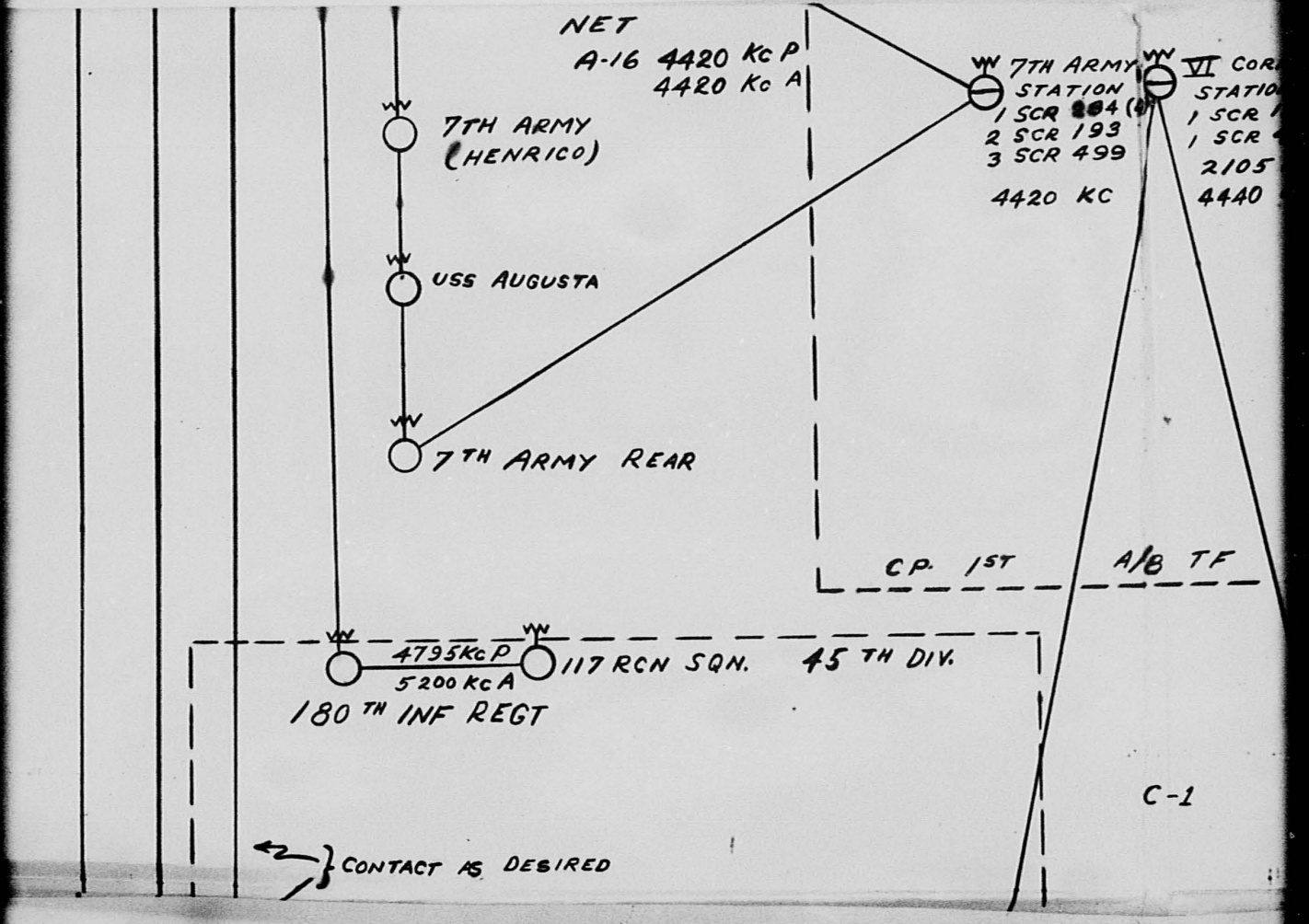
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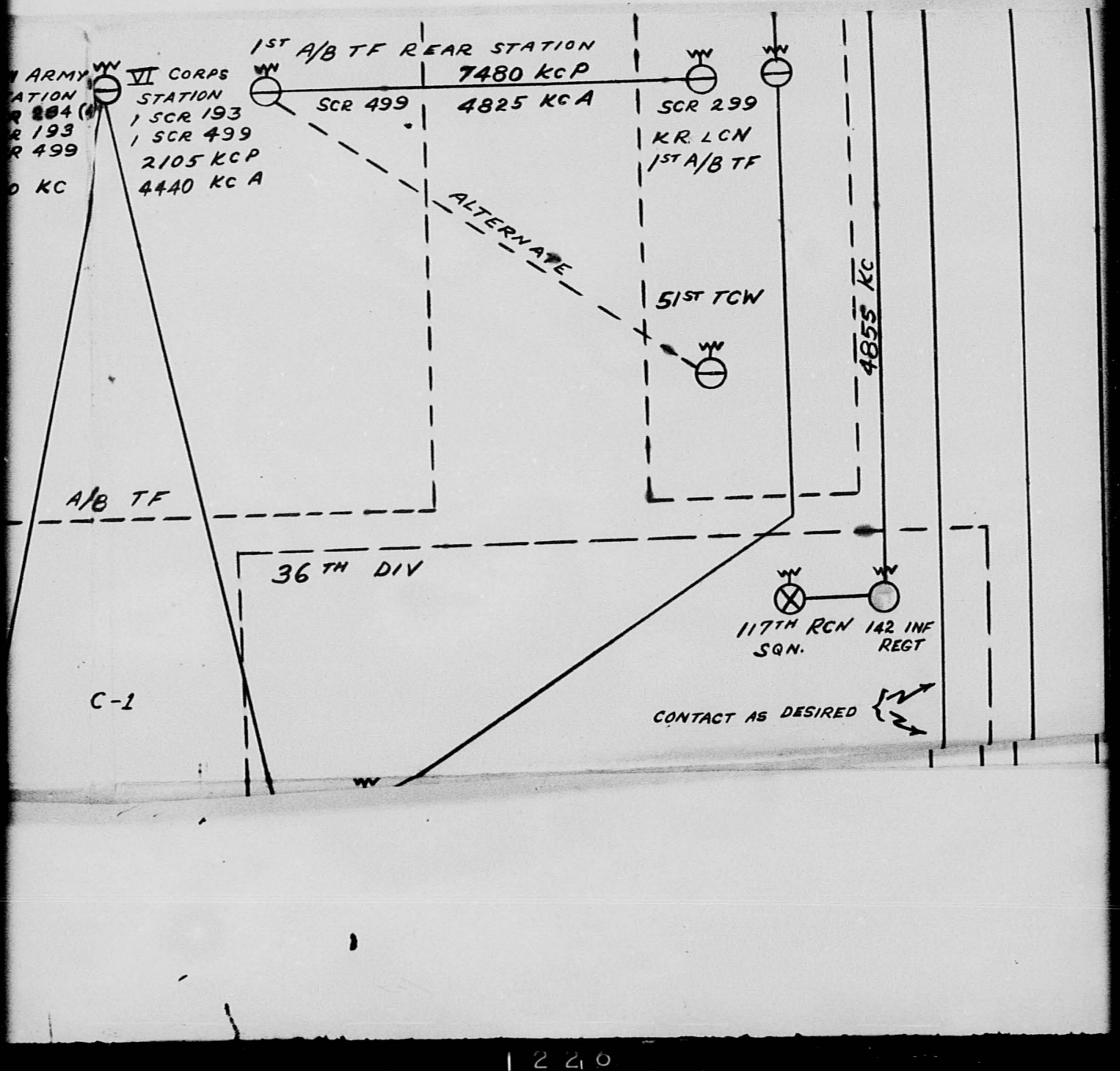
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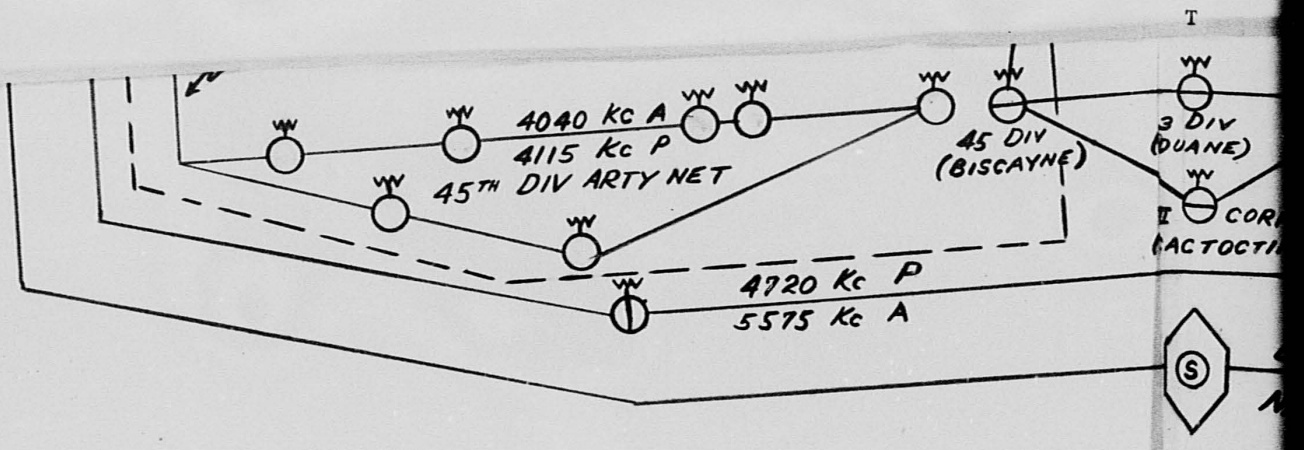
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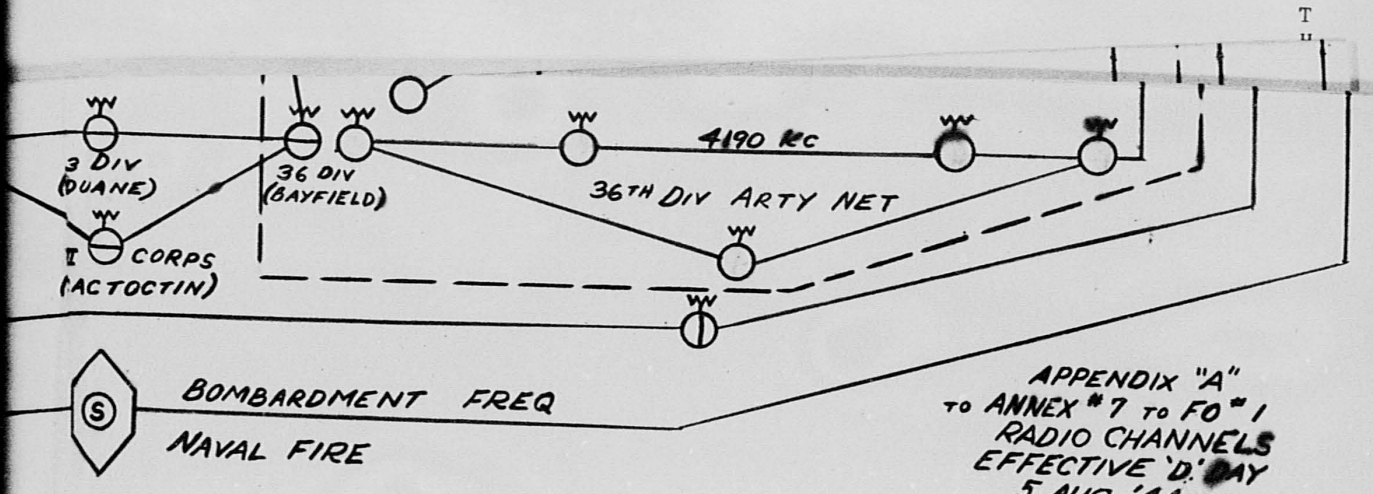
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APPENDIX "A"
TO ANNEX # 7 TO FO # 1
RADIO CHANNELS
EFFECTIVE 'D' DAY
5 AUG '44

FREDERICK
CG

Official: James
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: Auth: CG 1st ABTF :
: Init: [illegible] :
: Date: 4 Aug 1944 :

COPY NO. 18

Hq 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

DM O 1 To Accompany FO 1

APS: Same as FO 1

REFERENCES - 1. Letter, Hq 1st ABTF, 28 July 1944, Subject: "Individual and Unit Supplies and Equipment".

2. Letter, Hq 1st ABTF, 26 July 1944, Subject: "Periodic Reports".

1. SUPPLY

a. Basic Loads - See Reference No. 1.

b. Resupply Plan - See Annex No. 1. - Resupply Plan.

2 EVACUATION

a. Casualties.

(1) Units will report location of aid stations to this Hq.

(2) Collection Station - to be announced.

(3) Clearing Station - to be announced.

(4) Medical Plan - See Annex No. 2. - Medical Plan.

b. Burial.

(1) By 1st ABTF. Units will furnish burial parties on call.

(2) 1st ABTF cemetery - to be announced.

(3) Isolated burials to be made only in an emergency; such locations to be promptly reported to this Hq.

c. Salvage.

(1) Collection by units.

(2) Unit collecting points to be reported to this Hq.

(3) Vigorous measures will be taken by all units to insure maximum salvage of parachutes and aerial delivery containers.

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2. EVACUATION - Contd.

d. Captured material.

(1) Collection by units.

(2) Unit collecting points to be reported to this Hq.

(3) New items of enemy equipment to be reported immediately to G-2, 1st ABTF.

(4) In event of capture of chemical ammunition, 1st ABTF CWS Officer will be immediately notified, giving location of ammunition.

e. Prisoners of War.

(1) Collecting points to be selected by unit commanders and locations to be reported to this Hq.

(2) Enclosures - to be announced.

(3) Responsibility for evacuation - by units to collecting points - By 1st ABTF from collecting points to enclosures.

f. Civilians. All movement prohibited.

3. TRAFFIC

a. Circulation.

(1) MSR - to be announced.

(2) Priorities - troop movements, ammunition.

(3) No restriction on ambulance movement.

b. Restrictions - No lights during hours of darkness.

c. Control.

(1) Initially by units.

(2) Traffic Control Posts - to be established and announced as required.

4. SERVICE TROOPS AND TRAINS.

a. Det 3rd Ord Co. - Light Maintenance Parties to be attached to combat teams upon landing (except 2nd Ind. Para. Bde.)

b. 676th Med Collecting Co. - Location to be announced.

c. Remainder Service elements and unit trains to move by sea and join 1st ABTF between D+10 and D+16.

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5. PERSONNEL

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a. Stragglers.

(1) Straggler line - to be announced.

(2) Collecting Points - to be announced.

b. Surplus Baggage - To be carried by unit trains (See Reference No. 1).

c. Mail - Delivery suspended D-1.

d. Strength Reports - See Annex No. 3 - PERSONNEL PROCEDURE.

e. Replacements - None until relieved. Units will retain over-strength gained as a result of RTU's not in excess of 15%.

f. Uniform and [illegible] Equipment - See Reference No. 1.

6. MISCELLANEOUS

a. Rear Echelon - Hq 1st ABTF (Rear) LIDO DI ROMA.

b. Reports.

(1) Material Status and Ammunition Reports - See Reference No. 2.

(2) G-4 Periodic Report - See Annex No. 4 - WEEKLY S-4 PERIODIC REPORT.

c. Administrative matters not otherwise covered.

(1) See Annex No. 3 - PERSONNEL PROCEDURE.

(2) See Annex No. 5 - MARSHALING PROCEDURE.

(3) See Annex No. 6 - ORGANIZATION OF REAR ECHELON.

FREDERICK
Cmdg.

OFFICIAL:
BASSETT
G-4

ANNEX
No. 1 - RESUPPLY PLAN
No. 2 - MEDICAL
No. 3 - PERSONNEL PROCEDURE
No. 4 - WEEKLY S-4 PERIODIC REPORT
No. 5 - MARSHALING PROCEDURE
No. 6 - ORGANIZATION OF REAR ECHELON

DISTRIBUTION:
Same as FO 1
Plus: G-4 5

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:Init: C/S :
:Date: 4 Aug 1944:

Hq. 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

ANNEX NO. 1 to ADM O 1 - RESUPPLY PLAN

1. Attached as Incl 1 is chart showing type and contents of resupply loads, code name for each load, and amounts to be delivered for 1 day of supply.

2. Returning a/c of serials 14 & 15 (See Annex 4 to FO 1) will be loaded & alerted for an emergency supply mission to DZ, A, O, or C during night of D/D+1.

3. One day's supply (less amount delivered as indicated above) will be dropped by parachute on DZ's A and O on D+1 by serials 24 & 25 (See Annex 4 to FO 1).

4. Four additional days stockage of type loads, plus 50% replacement of weapons & major items of signal equipment, will be held at the resupply air base to be delivered by parachute on request of Hq. 1st ABTF (Fwd) (or alternate communication channels from forward units to Hq. 1st ABTF (Rear).

5. All request for supplies will indicate:

(1) Quantity & code name of load desired.

(2) Prefixed DZ (See Annex 3 to FO 1) or map coordinates of point, to which delivery is desired.

(3) Time delivery is desired if other than immediate. (minimum time until delivery is made by parachute from time unit request is submitted to Hq 1st ABTF (Fwd) is estimated to be 12 hours)

6. Hq. 1st ABTF (Rear) will notify Hq. 1st ABTF (Fwd) of exact time of delivery as soon as possible after receipt of request.

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21

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Incl 1 to Annex No.1 RESUPPLY PLAN

CLASS I SUPPLIES

CODE	CONTENT	BUNDLES No. requ for 1 day supply. 517	509	551	yTp	Total
ABLE BAKER	6 in 1 Rations 4 cases (24)	131	48	48	43	270
ABLE CHARLIE	Type "K" Rations 1 case (12)	261	96	96	86	539
ABLE DOG	Water: 4-5 gal plastic bags	37	15	15	13	80

CLASS III

BAKER ABLE	Gasoline: 3 cans (5 gal)	11		11	16	37
BAKER CHARLIE	Oil: SAE 30 1 can (5 gal)	1		1	1	3
BAKER DOG	Lub Gear Univ. SAE 90 25 lb		SPECIAL REQUEST			
BAKER EASY	Grease GP #1 1 can (5 gal) Water pump 2 lbs			"	"	
BAKER FOX	Grease GP #2 1 can (5 gal) Water pump, 2 lbs			"	"	

CLASS IV ENGINEER

CHARLIE ABLE	200 lbs TNT 50 spec. non-elec caps 100 ft detonating cord 50 ft safety fuse 40 fuse lighters M2 20 fuse 15 second delay 50 blasting cap protectors 10 cap adapters 10 rolls friction tape 5 balls twine 1/2 pt sealing compound			1	2	3
CHARLIE BAKER	200 lbs composition C2 50 spec. non-elec caps 100 ft detonating cord 50 ft safety fuse 40 fuse lighters M2 20 fuse 15 sec delay 50 blasting cap protectors 10 cap adapters 10 rolls friction tape 5 balls twine 1/2 pt sealing compound	7	3			10
CHARLIE DOG	200 lbs chain Demo. block M-1 50 special non electric caps 100 ft Detonating cord 50 ft safety fuse 40 fuse lighters M2 20 fuse 15 sec. delay 50 blasting cap protectors 10 cap adaptors 10 rolls tape 5 balls twine 1/2 sealing compound		1			1

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BIGOT-DRAGOON
:TOP SECRET
:Auth: CG 1st ABTF
:Init: C/S
:Date: 4 Aug 1944:

Hq. 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

ANNEX NO. 1 to ADM O 1 - RESUPPLY PLAN

1. Attached as Incl 1 is chart showing type and contents of resupply loads, code name for each load, and amounts to be delivered for 1 day of supply.

2. Returning a/c of serials 14 & 15 (See Annex 4 to FO 1) will be loaded & alerted for an emergency supply mission to DZ, A, O, or C during night of D/D+1.

3. One day's supply (less amount delivered as indicated above) will be dropped by parachute on DZ's A and O on D+1 by serials 24 & 25 (See Annex 4 to FO 1).

4. Four additional days stockage of type loads, plus 50% replacement of weapons & major items of signal equipment, will be held at the resupply air base to be delivered by parachute on request of Hq. 1st ABTF (Fwd) (or alternate communication channels from forward units to Hq. 1st ABTF (Rear).

5. All request for supplies will indicate:

(1) Quantity & code name of load desired.

(2) Prefixed DZ (See Annex 3 to FO 1) or map coordinates of point, to which delivery is desired.

(3) Time delivery is desired if other than immediate. (minimum time until delivery is made by parachute from time unit request is submitted to Hq 1st ABTF (Fwd) is estimated to be 12 hours)

6. Hq. 1st ABTF (Rear) will notify Hq. 1st ABTF (Fwd) of exact time of delivery as soon as possible after receipt of request.

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7. See SOI for method of marking SDZ's.

8. See Incl #2 for aerial delivery marking scheme.

FREDERICK
Comdg.

OFFICIAL:
BASSETT
G-4

2 Inclosures:
#1-Load Chart
#2-Marking Scheme.

DISTRIBUTION:
Same as ADM O 1
Plus: G-4 10

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Incl 1 to Annex No.1 RESUPPLY PLAN

CLASS I SUPPLIES

CODE	CONTENT	BUNDLES No. requ for 1 day supply. 517	509	551	vTp	Total
ABLE BAKER	6 in 1 Rations 4 cases (24)	131	48	48	43	270
ABLE CHARLIE	Type "K" Rations 1 case (12)	261	96	96	86	539
ABLE DOG	Water: 4-5 gal plastic bags	37	15	15	13	80

CLASS III

BAKER ABLE	Gasoline: 3 cans (5 gal)	11		11	16	37
BAKER CHARLIE	Oil: SAE 30 1 can (5 gal)	1		1	1	3
BAKER DOG	Lub Gear Univ. SAE 90 25 lb		SPECIAL REQUEST			
BAKER EASY	Grease GP #1 1 can (5 gal) Water pump 2 lbs			"	"	
BAKER FOX	Grease GP #2 1 can (5 gal) Water pump, 2 lbs			"	"	

CLASS IV ENGINEER

CHARLIE ABLE	200 lbs TNT 50 spec. non-elec caps 100 ft detonating cord 50 ft safety fuse 40 fuse lighters M2 20 fuse 15 second delay 50 blasting cap protectors 10 cap adapters 10 rolls friction tape 5 balls twine 1/2 pt sealing compound			1	2	3
CHARLIE BAKER	200 lbs composition C2 50 spec. non-elec caps 100 ft detonating cord 50 ft safety fuse 40 fuse lighters M2 20 fuse 15 sec delay 50 blasting cap protectors 10 cap adapters 10 rolls friction tape 5 balls twine 1/2 pt sealing compound	7	3			10
CHARLIE DOG	200 lbs chain Demo. block M-1 50 special non electric caps 100 ft Detonating cord 50 ft safety fuse 40 fuse lighters M2 20 fuse 15 sec. delay 50 blasting cap protectors 10 cap adaptors 10 rolls tape 5 balls twine 1/2 sealing compound		1			1

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Incl 1 to Annex No.1

CLASS IV ENGINEER (Cont'd)

CODE	CONTENT	BUNDLES No. req'd for 1 day supply FORCE 7	FORCE 8	FORCE 9	DIVISION	CORPS TROOPS
CHARLIE EASY	20 A T Mines 3 rolls tracing tape	10				15
CHARLIE FOX	14-10' shape charges	1	1			2
CHARLIE GEORGE	5 AP mine M2 5 AP mine M3 12 Delay fuse M1 5 firing device pull type 5 firing device, pressure 5 firing device, combination 500 ft detonating cord 4 firing device, release M1	2				2
CHARLIE HAL	500 caps, electric special					
CHARLIE ITEM	250 sand bags.	1	1			
CHARLIE JIG	Kit Demo #5 (10 per bundle)		2			2

CLASS IV CHEMICAL

DOG ABLE	1 (ea) Alarm gas 1 Disinfectant,gas mask (4oz btl) 1 Crayon,vesicant det (box 12) 200 Impregnite, (can) 1 (ea) Kit, H.S. vapor detector 1 (ea) Kit repair universal M3 2 Paint liqu ves det (can) 2 paper liqu ves det (book)	EMERGENCY ONLY			
DOG BAKER	200 (cans) Impregnite		"	"	
DOG CHARLIE	2 Agent decon non cor (6 gal can)		"	"	

CLASS IV MEDICAL

EASY ABLE	1 Bandage Compressed 3 in (72 box) 3 " Triangular (Dox) 3 Sponge, Surgical (4x4) pkg 1 Sponge, Surgical (2x2) pkg 1 Gauze, impregnated, (can) 1 Cotton absorbent pkg 12 oz 1 Gauze, plain, sterile, pk 1 Plaster Adhesive, 1 inch 30 Plaster Adhesive, 3 inch. 2 Bandage, elastic, ace 200 Dressing, First Aid Carlisle 80 Dressing First Aid Lg Carlisle 75 Packets First Aid 30 Gauze, roll, 4 inch.			2	2

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RESUPPLY PLAN

CLASS IV MEDICAL (Cont'd)

CODE	CONTENT	BUNDLES No. req. for 1 day supp. 517	509	551	Div Tp	Total
EASY BAKER	1 Peroxide, bottle, pint 6 Epinephrin, ampules ea. 6 Procaine, dent. cart. box 20 2 Cocaine, ampules 1 Atropine Sulphate sol., 1-oz 1 Ether, Can 2 Water, dist. ampule, 30cc 20 Swab, iodine, box 9 Sulphanilamide, crystals box 12 shakers 1 Alcohol, denatured, quart 1 Pencillin, ampules 1 Paregoric, quart 1 Sulphadiazine, bottle, 1000 100 Halazone, bottle 100 12 "D" Ration, ea. 1 Ointment, boric acid, jar 1 lb 6 Multivitamine, caps, bottle 2 Sterno, can 1 Pentalhal Sodium, ampules 2 Plasma, unit 1 Cups, paper, collapsible, ctn 4 Soap, white, floating, bar 1 Syringe,, 30cc 6 Needles, hypo, 20 gauge, ea. 1 Scissors, 6¼-in. ea. 6 Gloves, rubber, size 8 3 Sutures, catgut #1, box 2 Knife, blade,detchbl.#11 pkg 2 Knife, blade,detchbl.#6 pkg 1 Handle, knife, operating #3 10 Kit, phosphorus burn 1 Needles, suture, pack 1 Blades, razor, pack 10 Emergency Medical Tag, book 40 Morphine,tartrate,syret,box 5 1 Blankets 5 Gauze, Plaster Paris, roll				2	2
EASY CHARLIE	20 Plasma Unit 15 Morphine,tartrate,syret.box 5 1 Pentothal, Sodium, Ampule 1 Spiritus, frumenti 1 Blanket 10 Swab, Iodine, box 1 Emergency Medical Tag, book				6	6
EASY DOG	2 Litter, Folding 1 Splint, Set 2 Gauze, Plaster Paris, roll 2 Plasma Unit 2 Blankets 1 Stockingette Roll 2 Emergency Medical Tag, book 5 Morphine,tartrate,syret,box 5				2	2

23

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Incl 1 to Annex No. 1

CLASS IV SIGNAL

CODE	CONTENT	BUNDLES No. req for 1 day supply. 517	509	551	Div Tp	Total
FOX ABLE	W-130 2 DR-4 W-130 3 DR-8	1	1	1	1	4
FOX BAKER	W-110 2 DR-4 W-130 3 DR-8	1	1	1	1	4
FOX CHARLIE	BA-30 100 BA-39 3 BA-40 5 BA-43 21 BA-49 2	2	2	2	2	8
FOX DOG	BA-37 50 BA-38 50 BA-70 6 BA-80 4	3	2	2	2	9
FOX EASY	50 rolls friction tape 15 " rubber tape 6 TE-33 3 C-161 2 Linemans belts w/equip seizing wire 4 EE 8A 1 Pr. Test Clips 2 Sets CE-11 1 Drum DR-4 W-110 100 BA-30 1 M-209-A Converter				1	1
FOX GEORGE	TUBES 2 Sets for SCR 610 2 " " " 300 2 " " " 284 2 Sets for SCR 536 2 " " " 511 2 " " " 193 2 " " " 694 2 " " " 499	SPECIAL REQUEST				

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Incl 1 to Annex No. 1

CLASS V AMMUNITION

CODE	CONTENT	No. Rds Req. for 1 day supply 517	509	551	DivTp	Total
GEORGE ABLE	Cartridge, Carbine, Cal. .30	15120	2250	9630	2985	30285
GEORGE BAKER	" Tracer, Carb, Cal..30					
GEORGE CHARLIE	" Grenade, Carbine	Included w/rifle grenade, carbine				
GEORGE DOG	" Cal. .30 AP-T (9-1)	38250	8000	11750	2250	60250
GEORGE EASY	" Cal. .39 AP-T (4-1)					
GEORGE FOX	" Ball, Cal .30, 8-Rd Clips	36500	12720	9140	2180	60540
GEORGE HAL	" Ball, Cal .30, 5-Rd Clips	4850	1300	450		6600
GEORGE IAL	" Tracer, Cal .30 20-Rd Ctn.	Included w/ball.				
GEORGE ITE	" Ball, Cal. .45	3252	4461	1185	440	9338
GEORGE TIG	" AP-I-T, Cal. .50 (belts)	5200	3800	1200	1000	11200
GEORGE KING	57MM Shot APC	360				360
GEORGE LOVE	" Shell, H.E. (Br)					
GEORGE MIKE	" Shell, H.E.	1350	750	450		1550
GEORGE MAN	" , Illum.					
GEORGE OBOE	81 MM Shell, H.E., Heavy	900	150	300		1250
GEORGE PETER	" " , Light					
GEORGE QUEEN	" , Smoke WP					
GEORGE ROGER	75 MM Shell, H.E., M-48	1280	960	960		3200
GEORGE SUGAR	" " , M-54					
GEORGE TARE	" " , Smoke					
GEORGE UNCLE	" " , H.E. A-T					
GEORGE VICTOR	4.2" Mortar	480				480
GEORGE WILLIAM	Rocket, 2.36", A-T	1062	420	396	78	1956
GEORGE XRAY	Grenade, Rifle, A-T	600	645	120	180	1545
GEORGE YOKE	" " , A-T Carbine					
HAL ABLE	" , Hand Frag.	515	165	165	170	1015
HAL BAKER	" " , Offensive	515	165	165	170	1015
HAL CHARLIE	Fuse for Grenade, Hd. Off.	515	165	165	170	1015
HAL DOG	Signal AC. Red Star Cluster	144	52	92	52	330
HAL EASY	" " White Star					
HAL FOX	" " Red-red Star					
HAL GEORGE	" " Green Star					

-5-

24

1240

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Incl 1 to Annex No. 1

CLASS V AMMUNITION - Contd.

CODE	CONTENT	No. Rds Req. for 1 day supply				
		517	509	551	MvTp	Total
HAL ITEM	Signal A.C., Red Star					
HAL JIG	" " , Yellow Star					
HAL KING	" " , Very Yellow Star		68			68
HAL LOVE	(75 Grenade, W.P, M15 (25 " , Incend, AN-M14 (150 Starter, fire (6 Grenade, Smoke, Yellow M16 (12 " " , HC	1	BUNDLES 1	1	1	4

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TOP SECRET BIGOT-DRAGOON

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:Date: 4 Aug 1944 :
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Incl. #2 to Annex No. 1 - Marking Scheme

Hq 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

1. Scheduled (Serials 24 & 25)

   a. DZ A:
      Blue Canopy - 517 RCT
      Yellow Canopy - 551 CT

   b. LZ O:
      Disregard all canopy colors.
      All containers for 2nd Ind Para Bde
      marked with yellow band around container.

2. Emergency - Disregard all canopy colors.

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25

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: Auth: CG 1st ABTF ;
: Init: RCB ;
: Date: 4 Aug 1944 ;

ANNEX NO 2 to ADM O 1 - MEDICAL PLAN

Hq 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

1. Evacuation:

a. Casualties:

(1) Casualties occurring in marshalling areas prior to departure will be given medical care by Air Force medical personnel at each departure base.

(2) Casualties incurred in flight will be given 1st aid by crew chiefs and returned to departure bases for evacuation by Air Force medical service.

(3) In the target area all DZs and LZs will, if practicable, be searched for landing casualties by unit medical personnel prior to their departure from the area.

(4) Locations of aid stations will be reported to 1st ABTF Hq. promptly.

(5) Regtl Aid stations will operate as directed by the Regtl Cmdr.

(6) Medical service of separate companies will be the responsibility of the surgeon of the unit to which the company is attached.

(7) Medical service for 1st ABTF will be provided by the 676 Medical Collecting Co Airborne.

(8) The 676 Medical Collecting Co Airborne will operate a Treatment Station in the vicinity of 1st ABTF CP and report location.

(9) The 676 Medical Collecting Company will be responsible for the routine evacuation of aid stations of the 517 CT, 509 CT, 551 Prcht Inf Bn and the 602 Gli FA Bn. Evacuation of the Field Ambulance of the 2nd Ind Para Bde will be on request of the Brigade Surgeon.

(10) All medical installations not previously evacuated by 1st ABTF will be evacuated of casualties by the first ground unit with which contact is made. Units must make evacuation requirements known to relieving unit.

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26

1243

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1. Evacuation - Contd.

a. Casualties - Contd.

(11) All glider pilot casualties evacuated will be reported daily to 1st ABTF Hq, listing name, ASN, unit and type of injury.

b. Burial - The dead at medical installations will be buried as directed in ADM O 1.

c. Salvage - Items of clothing and equipment accumulated in medical installations will be turned in promptly to the nearest salvage collecting point.

d. Prisoners of War:

(1) Prisoner of War casualties will be rendered treatment similar to our own troops and will be evacuated through normal channels.

(2) Medical Officers will request the necessary guards.

2. Supply:

a. Class I Supplies:

(1) Rations carried by individual casualties will be available to medical installations for feeding patients.

(2) The medical company will carry 200 additional rations in the basic load for patients mess.

(3) Additional "D" Rations are provided in medical resupply loads -- See Incl #1 to Annex No 1.

b. Medical Supplies:

(1) Attached medical units will carry unit equipment and sufficient supplies for two days. An augmentation of plasma, morphine syrettes, dressings and sulfaquanidine will be carried.

(2) The 676th Medical Collecting Company, in addition to (1) above will carry additional litters, blankets, plaster, splint sets and Tetanus Toxoid.

(3) Special items for Troops, to include atabrine, quinine prophylactic kits, motion sickness tablets, will be issued prior to departure. (See letter, Hq 1st ABTF, dated 28 July 44, Subject: "Individual and Unit Supplies and Equipment"). In addition, units will carry a two weeks supply of atabrine.

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b. Medical Supplies - Contd.

(4) Five days of medical supplies will be stocked at the 1st ABTF resupply airbase for aerial delivery.

(a) For method of delivery see Annex No. 1.

(b) Medical resupply bundles are of four (4) types--See Incl #1 to Annex No. 1.

(5) The 676th Medical Collecting Co will assume responsibility for normal medical supply of 1st ABTF as soon as it is practicable to reach beach medical supply dumps. Prior to contact with relieving units Medical Co will endeavor to establish dump of dropped medical supplies.

(6) Requisition will be by informal request.

(7) Tactical units capturing medical installations will place a guard thereon to prohibit entry of unauthorized persons and prevent looting. The location and size of installations will be reported to 1st ABTF Surgeon promptly.

3. Traffic: - See Adm O.

4. Personnel:

a. Stragglers and malingerers apprehended at medical installations will be turned over immediately to the proper tactical unit or Military Police.

b. Shelter - Wherever practicable buildings will be made available for medical installations.

5. Sanitation:

a. Water - All water will be considered non-potable except the following:

(1) Purified by engineer water supply units.

(2) Chlorinated in lister bags.

(3) Individually sterilized by Halazone Tablets - (2 to 4 tablets per canteen, depending upon turbidity, and 30 minute activation period).

b. Food - Rations from authorized sources only will be used. Food will be consumed from original containers and mess kits will not be used until proper mess gear washing facilities are available.

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5. Sanitation - Contd.

c. Waste Disposal - Straddle trenches in early phase, box type latrines to be used as early as practicable in order to control fly breeding.

d. Malaria Control - Constant use of repellents, aerosol dispensers and daily atabrine will be exercised.

e. Venereal Disease:

(1) Dissemination of individual prophylactic packets.

(2) All medical installations will carry necessary material for chemical prophylaxis.

f. General - The target area is a malarious area and in general the same diseases prevail that are found in the Lido area.

6. Miscellaneous:

a. Medical Department Records:

(1) The Emergency Medical Tag (MD Form 52b) is the most important medical record as in many cases it is the only record upon which claims are based, great care will be exercised in accomplishing this Form.

(2) Other medical records will be submitted in compliance with current instructions.

b. Treatment of gas casualties:

(1) Unit gas casualty treatment equipment will be carried in basic load.

(2) Available in the individual gas mask are the following items which may be used in treatment of gas casualties:

(a) Ointment protective M-4.

(b) Eye ointment, Bal.

c. All provisions of the Geneva Convention will be complied with.

(1) The brassard will be worn by all medical personnel.

(2) The Red Cross will be painted on the helmet.

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6. Miscellaneous - Contd.

c. Contd.

(3) Medical vehicles will be marked with the Red Cross, on horizontal surfaces, both sides, front and rear.

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Cmdg.

OFFICIAL:

BUNCH
Surg

DISTRIBUTION:
Same as ALM 0 1

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28

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TOP SECRET

HEADQUARTERS 1ST AIRBORNE TASK FORCE
APO 758, U S ARMY

SECRET
Auth: CG FABTF
Init: AC
Date 6 Aug 1944

Copy No.

Annex No. 3 to Admin. Order No. 1 - PERSONNEL

I PERSONNEL PROCEDURE:

1. Leaves and furloughs suspended

2. Daily S-1 Report:

a. Effective D Day, each unit of this command, in the combat zone, will submit a Daily S-1 Report as of 2359B. Reports will be submitted so as to arrive at this headquarters by 0900 hours on the day subsequent to the 24 hour period covered by the report.

b. Reports will be submitted in code, by telephone, or courier as follows:

(1)	Strength	AZ
(2)	Killed, captured, missing and interned	BY
(3)	Hospitalized	CX
(4)	Returned to duty and replacements received	DW
(5)	Enemy prisoners captured	EV
(6)	Period covered by report	FA

c. Effective D plus 15, the report required in paragraph b, will be discontinued and the following substituted therefor:

(1)	T/O Strength of reporting unit	AN
(2)	Assigned strength of reporting unit	PN
(3)	Effective strength of reporting unit	AQ
(4)	Killed, captured and missing	LA
(5)	Wounded	AR
(6)	Non-battle casualties	XY
(7)	Battle and non-battle casualties returned to duty	DW
(8)	Replacements received	PS
(9)	Axis prisoners	RN
(10)	Period covered by report	DU

d. Definitions:

(1) Effective strength is the present for duty strength at the time the report is compiled.

(2) Killed, captured, missing and interned include all battle casualties, except wounded.

(3) Replacements received will include only those actually delivered; not expected or enroute.

e. Battle and nonbattle casualties returned to duty will be reported when picked up by parent unit.

f. Period covered by report is 24 hour period ending 2359B.

g. S-1 Reports will be classified as SECRET.

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1248

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3. Combat Promotions and appointments U S Forces Only:

a. The Commanding General, Seventh Army, has been delegated the authority to promote to the next higher grade deserving officers, to include the grade of Lieutenant Colonel, and to make combat appointments to the grade of Second Lieutenant in the case of deserving warrant Officers and enlisted men. Combat promotions and appointments are based upon demonstrated fitness by outstanding performance and leadership in actual combat. Superior performance of assigned duty and exemplary conduct at all times during combat does not alone qualify for combat promotion or appointment.

b. Promotions are to fill Table of Organization vacancies only.

c. Appointments may be made without regard to Table of Organization or Table of Allotment vacancies.

d. For detailed instructions on combat promotions and appointments, see Circular 3, Headquarters Seventh Army, dated 12 June 1944.

e. Promotion of Officers.

(1) Routine - In accordance with Circular Number 39, Headquarters NATOUSA, as ammended by Circular Number 63, Headquarters NATOUSA, C.S., and in accordance with AR 605-12, as ammended.

4. Reclassification.

a. Officers - As directed in Ar 605-230, as ammended.

5. Battle Casualty Reports - To be submitted in accordance with Circular Number 4, Headquarters Seventh Army, dated 15 July 1944, thru this headquarters

6. Machine Records Units - Organizations will continue to be serviced by the same units that were servicing them prior to the operation. During operations Morning Reports will be submitted thru this headquarters. Combat Team commanders will be responsible for the collection of Morning Reports from elements of their combat teams and their subsequent submission to this headquarters with the least practicable delay.

II PAY

1. U S Forces - Payment will be normal. Organic Finance Disbursing Detachment of Task Force will land with rear echelon of ABTF.

2. a. All sterling or dollar exchange will be withdrawn, from, or exchanged by troops prior to their departure.

b. Sterling and/or dollar currency will not be legal tender on the continent. All personnel who engage in transactions involving such currency will be liable to trial by courts martial.

III MORAL

1. Gratuitous issue of essential PX items will be made with rations until exchange system is established about D plus 30.

2. A daily edition of Stars and Stripes will be published. Personnel and equipment will land about D plus 10.

3. Awards and Decorations:

a. Prompt action will be taken by unit commanders to recognize and recommend outstanding acts of gallantry for the appropriate award and will insure that no deserving case goes unrewarded.

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b. Recommendation will be submitted as directed in letter this headquarters, file AG 200.6, subject: Decorations and Awards, dated 2 Aug 44.

4. ANC personnel will move by sea and will land with rear echelon of ADTF.

IV PRISONERS OF WAR

1. Definition.

The following, when captured, shall be treated as Prisoners of War:

a. All persons belonging to the armed forces of the enemy, captured in course of military operations, land, sea, or air.

b. Individuals who follow or accompany armed forces, such as correspondents, newspaper reporters, contractors, and their employees, shall be entitled to be treated as Prisoners of War, provided they are in possession of a certificate from the enemy military authorities.

c. All other captured enemy civilian personnel shall be considered as internees until their classification is determined by proper authority and shall be kept separate from Prisoners of War. Ref. FM 27-10 Rules of Land Warfare.

2. Procedure for handling.

a. Officers of the unit making the capture may interview prisoners briefly without causing undue delay in evacuation.

b. For evacuation see administrative order. Units will notify ADTF upon capture.

c. Upon capture prisoners will be disarmed, and ordered to remain silent.

d. A message showing time and place of capture and the unit effecting capture will be sent to the next higher headquarters.

e. At Regimental level prisoners will be searched for documents. This search should be made in conjunction with Prisoners of War Interrogators who can best determine the military value of documents. Prisoners will retain steel helmets, gas mask, identification tags, insignia or rank, decorations, photographs of no military value and their pay books (SOLDBUCH).

f. Confiscated documents will be labeled so as to identify the owner. The documents will be sent back to ADTF with the prisoner escort. At ADTF enclosure the documents will be delivered to the interrogators or A-2 representative.

g. Prisoners will be segregated as quickly as possible into groups; Officers, Non-commissioned officers, enlisted men and internees. (Note) German corporals are not NCOs. There will be a further segregation by nationalities, if feasable, to separate Nazi from Anti-Nazi, and old prisoners from young. All persons of French nationality (especially inhabitants of Alsace-Lorraine) serving in or under the control of the German army will be segregated as soon as possible.

h. Handling and movement of prisoners will not interfere with the circulation, movement, or tactical employment of our own troops.

i. When practicable, prisoners will be organized to furnish their own administrative personnel, and will be formed in maximum groups of fifty. Once a group is formed, it shall remain intact throughout the evacuation.

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j. Extensive use will be made of enemy supplies and equipment to administer prisoners.

k. English speaking Prisoners will be utilized where feasible for clerical use.

l. In accordance with paragraph 79, Rules of Land Warfare, rigid discipline will be exercised for security of personal effects of prisoners and securing enemy government equipment as provided in the 79th and 80th Articles of War.

m. The graves registration unit of ABTF will supervise burial and accomplish necessary records of deceased prisoners.

n. Prisoners of war are in the power of the enemy, but not of the individuals or bodies of troops who capture them. They must be protected against violence, insults and public curiosity.

o. Prisoners of war have the right to have their person and their honor respected.

p. Unit medical installations will report the presence of wounded prisoners to ABTF. Documents taken from such prisoners will be sent to G-2 ABTF, as soon as possible.

q. Uninjured prisoners may be used to assist in carrying wounded prisoners. If Chaplains or medical personnel are among the prisoners, their services will be utilized.

4. Souvenir Hunting:

a. All personnel are warned that taking for personal purposes money, watches, rings, fountain pens, insignia or any other property of Prisoners of War, in addition to being a violation of the Geneva Prisoner of War Convention of 1929, is a criminal act, amounting, according to the circumstances, to larceny or robbery in violation of Article of War 93.

b. Prisoners will be questioned by an officer before leaving ABTF enclosures as to whether they have had personal belongings stolen from them. In case of an affirmative answer the officer will obtain all the facts available, reporting them to the ABTF Provost Marshal for investigation.

5. Labor:

a. All able-bodied Prisoners of War, except Officers, may be employed as workers on projects not directly connected with military operations. Non-commissioned officers are only required to work in supervisory capacity. Officers may be assigned appropriate work if they so request.

V Prisoners of ABTF Units:

a. All garrison prisoners, including those awaiting trial by General Courts Martial or action by reviewing authority, will accompany their units.

VI Discipline:

1. Military Police are authorized and empowered to maintain order, enforce authority and make arrests within their area of responsibility, without regard to the nationality or service to which such personnel may belong.

2. Unit Commanders will issue instructions for the maintenance of proper relations with the civil population. It should be impressed on each member of our units that their individual conduct will influence both the immediate and post-war attitude toward out country.

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: Date: 4 Aug 1944 :

HQ 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

ANNEX NO. 4 TO ADM O 1 - WEEKLY S-4 PERIODIC REPORT

1. All units will submit a WEEKLY S-4 PERIODIC REPORT, one copy only, to reach this Headquarters by 1200B each Sunday, for the period 0001B Sunday to 2400B Saturday of the week preceding.

2. Reports will follow the form of Inclosure #1.

3. Method of completing S-4 WEEKLY REPORT (Incl. #1)

(a) Location of unit or its C.P. will be indicated by coordinates and the name of nearest city or town.

(b) Report numbers will continue consecutively.

(c) Under paragraph 1 b (1) and (2) form, all losses and receipts for the period indicated, covering all items shown on MATERIAL IN HANDS OF TROOPS REPORT will be listed. It should be noted that the information in these paragraphs is used primarily to adjust the MATERIAL IN HANDS OF TROOPS REPORTS and accordingly should be given careful consideration. Items previously reported on EMERGENCY LOSS REPORT and replacements received, will be included in the weekly consolidation. Equipment lost to the unit due to transfer or turn in to dumps or depots will be so indicated.

(d) Vehicles turned in for repair will be considered as "On Hand, Deadlined" if the same are to be returned to the unit within 96 hours (Paragraph 2a, Incl. #1).

(e) Animal Status - Animals will be indicated by type; that is, Mountain Artillery (MA Mules, 58" and higher), Army Transport (AT Mules, under 58"), and horses (Paragraph 2b, Incl #1).

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Cmdg

OFFICIAL:
BASSETT
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Incl: S-4 Weekly Report Form.

DISTRIBUTION:
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32

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c. Unit Commanders will maintain such vice control measures as may be considered appropriate.

d. Upon entry in cities and towns, the strictest discipline will be maintained. Breaches of discipline will be dealt with promptly and firmly.

FREDERICK,
Commanding.

OFFICIAL:

CAMPBELL,
A-1

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INCLOSURE #1
TO
ANNEX #5, ADM O 1

S-4 WEEKLY REPORT

Unit Reporting _____ APO _____

Location _____ Coordinates _____ Date _____

Report No. _____ From 0001B _____ to 2400B _____

1. STATUS OF SUPPLY.

a. Class I:
Ration Strength - Personnel Daily Average No. of rations on hand
(Daily Average for period) B C) K X (10/1)

_____

b. Class II: Change of status (include changes in items of all supply services as shown on MATERIEL IN HANDS OF TROOPS REPORT).

(1) Losses.

	Vehicles	Other Equipment

(2) Receipts.

	Vehicles	Other Equipment

c. Class III: Average days of supply on hand, basis 1000 miles/da _____.

d. Class IV (List critical shortages and major stockages on hand)

2. STATUS OF TRANSPORTATION.

a. Vehicles - Indicate AVERAGE DAILY STATUS for period.

	Armored Auth.	Armored OH	Special Purpose Auth.	Special Purpose OH	General Purpose Auth.	General Purpose OH
Operative Vehicles						
Deadlined Vehicles						
Total						

b. Animals:

	OH, Start of Period	(Killed or Missing)	Vet.Hosp.	Rec'd	OH,Clos
MA les					
AT ules					
Horses					

3. CAPTURED MATERIEL.

	Vehicles	Other Equipment

4. EVENTS OF ADMINISTRATIVE INTEREST AND REMARKS.

_____
(Officer's signature)

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HQ 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

ANNEX NO. 5 to ADM O 1 - MARSHALLING PROCEDURE

1. Attached as Incl. #1 is schedule of movement to Departure Air Bases. This schedule must be rigidly adhered to; units must be prepared to load promptly upon arrival of additional transportation, and release this transportation immediately upon arrival at Departure Air Base.

2. The following units will operate messes at the initial Departure Air Bases and will mess the attachments as indicated:

BASE	UNIT OPERATING MESS	ATTACHMENTS
FOLLONICA	509th CT 550th A/B Inf. Bn.	None None
GROSSETTO	509th CT 602nd FA Bn	None 1 Co, 550th A/B Inf Bn
OMBRONE	517th RCT 602nd FA Bn	None 2nd Plat, 442 AT Co
ORBETELLO	517th RCT 442nd AT Co	None (Det, 512th Sig Co (Co. A, 2nd Cml Bn ((-2 Plats)
MONTALTO	460th FA Bn 551st Prcht Inf Bn	None None
CANINO	517th RCT 676th Med Coll Co	None (Det, 512th Sig Co (2nd Plat, Co A, 2nd Cml Bn
CALERA	2nd Ind Para Bde 887th Engr Co.	None (Det ABTF Hq Co (ABTF MP Plat
CIAMPINO	2nd Ind Para Bde Co D, 83rd Cml Bn	None (Det, 887th Engr Bn (Det, 3rd Ord MM Co
TARQUINIA	2nd Ind Para Bde	None

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2. Contd.

BASE	UNIT OPERATING MESS	ATTACHMENTS
VOLTONE	2nd Ind Para Bde	None
	512th Sig Co	Det, ABTF Hq Co.

3. The senior officer of units of ABTF at each Departure Air Base will be in command of all AB elements thereat. He will send necessary advance detachments so as to contact the ABLO at that base and arrange for necessary subdivision of bivouac areas, orderly movement into bivouac areas, establishment of messes, guard, sanitation, and other necessary administrative matters.

4. For action of rear detachments of units subsequent to takeoff of air echelons, see Annex No. 4 - ORGANIZATION OR REAR ECHALON.

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Cmdg

OFFICIAL:

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ASSETT
G-4

1 Incl.
#1-Movement Schedule.

DISTRIBUTION:
Same as ADM O 1
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HQ 1st A/B TASK FORCE
APO 753 U. S. ARMY
4 August 1944

Incl #1 to Annex No. 5

UNIT	DATE	LOADING POINT: LOCATION	LOADING POINT: ARRIVE	LOADING POINT: LEAVE	DESTINATION	UNLOADING POINT: ARRIVE	UNLOADING POINT: LEAVE	APPROX MOVEMENT TIME: PCOL	APPROX MOVEMENT TIME: ABL	NO TRUCKS REQUIRED	AVAIL ABLE SPARES	TYPE OF MOVEMENT
½ 509 BN CT	D-4	Lido	0445	0845	Follonica	1745	1945	0445	0645	20		C
½ 509 BN CT		Lido	0700	0900	Follonica	1800	2000	0500	0700	17		C
550 BN (-1Co)		Lido	0700	0800	Follonica	1700	1800	0300	0500	18		C
½ 509 BN CT		Lido	0715	0915	Grossetto	1615	1815	0115	0315	17		C
½ 509 BN CT		Lido	0730	0930	Grossetto	1630	1830	0130	0330	16		C
550 BN 1 Co		Lido	0900	1000	Grossetto	1700	1800	0100	0300	7		S
602 F.A. BN		Ciampino	0700	0830	Grossetto	1530	1700	2400	0200	16		C
517 Inf 2 BN.		Ciampino	0715	1015	Ombrone	1715	2015	0315	0515	25		C
517 Inf 2 BN.		Ciampino	0730	1030	Ombrone	1730	2030	0330	0530	22		C
602 F.A. BN.		Ciampino	0600	0730	Ombrone	1430	1600	2300	0100	12		C
517 Inf 3 BN	D-3	Ciampino	0300	0600	Orbetello	1200	1500	2100	2300	25	3	C

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Incl #1 to Annex No. 5

UNIT	DATE	LOCATION	LOADING POINT ARRIVE	LOADING POINT LEAVE	DESTINATION	UNLOADING POINT ARRIVE	UNLOADING POINT LEAVE	MOTOR POOL ARRIVES	AVAIL-ABLE	NO TRUCKS REQUIRED	AVAIL-ABLE JEEPS	TYPE OF MOVEMENT
517 Inf												
3 BN	D-3	Ciamprino	0415	0715	Orbetello	1315	1615	2215	0015	25	2	C
Sig Co		Lido	0415	0715	Orbetello	1315	1615	2215	0015	2		S
517 Inf												
1 Bn		Ciamprino	0600	0900	Canino	1400	1700	2200	2400	25	9	C
517 Inf												
1 Bn		Ciampino	0615	0915	Canino	1415	1715	2215	0015	25	9	C
Sig Co		Lido	0615	0915	Canino	1415	1715	2215	0015	4	5	S
Med Co		Lido	0615	0915	Canino	1415	1715	2215	0015	3	2	S
460 F.A.		Frascati	0745	1045	Montalto	1545	1845	2345	0145	28	16	C
460 F.A.		Frascati	0800	1100	Montalto	1600	1900	2400	0200	28	5	C
551 EN	D-2	Lido	2400	0100	Montalto	0600	0700	1200	1400	20	10	C
551 En		Lido	0100	0200	Montalto	0700	0800	1300	1500	19	16	C
Sig Co		Lido	0100	0300	Voltone	0800	1000	1500	1700	2	14	S
Div Hq		Lido	0100	0300	Voltone	0800	1000	1500	1700	2	12	S
Div Hq		Lido	0100	0300	Galera	0430	0630	0800	1000	2	10	S
887 Eng		Lido	0100	0300	Galera	0430	0630	0800	1000	10		S
MP Plat		Lido	0115	0315	Ciampino	0445	0645	0745	0945	2	57	S

C-Convoy
S-Shuttle

Schedule based on 4 truck Co's and speed of 20 M.P.H.

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Hq. 1st Airborne Taks Force
APO # 758 U. S.ARMY

Annex No. 6 to ADM O 1 - ORGANIZATION OF REAR ECHELON

1. ORGANIZATION OF HQ. AIRBORNE TASK FORCE (rear)

a. The rear echelons of units under this Headquarters are consolidated under HQ ABTF (rear) and as consolidated will be referred to by that designation.

b. HQ ABTF (rear) is organized, for control and movement, into three detachments identified as Detachment REAR, Detachment REAR A (subdivided into groups 1, 2 and 3) and Detachment REAR B.

c. HQ ABTF (rear) and Headquarters for each detachment will be located at Headquarters 1st Airborne Task Force.

d. Personnel assigned to Detachment REAR (see incl. 1) will come under control of HQ ABTF (rear) D - 1. The Senior Officer or NCO of such elements in each unit will report to the Commanding Officer HQ ABTF (rear) on that date.

e. Personnel assigned to Detachment REAR A (see incl. 2) will come under control of HQ ABTF (rear) D - 6.

f. Personnel assigned to Detachment REAR B (see incl. 3) will come under control of HQ ABTF (rear) upon final departure from Departure Air Bases for tactical operations of unit combat elements and will report without delay to the Detachment Commander at Task Force HQ, but not later than 1200 hour D + 1. Unit transportation will be used to effect this movement.

2. FUNCTIONS OF HQ ABTF (rear).

a. HQ ABTF (rear) is charged with the re-supply of combat elements of the 1st Airborne Task Force, and the administration, supply, discipline, security and movement of all officers, enlisted men and materiel of the Task Force not assigned to combat elements.

3. ORGANIZATION AND MOVEMENT - Detachments of HQ ABTF (rear)

a. HQ ABTF (rear) and Detachment REAR.

(1) Staff:

Commanding Officer - Lt.Col. Jas. A. Bassett

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Executive Officer	- Lt. Col. G.W. Greathouse
ADJ. and S-1	- 2nd Lt. Ray J. Tadlock
S-2 and S-3	- Lt. Col. Robert H. McCaw
S-4	- Capt. Louis M. Hipp
Air Movement	- Major Wm. H. Matthews
Resupply operations	- 1st Lt. D.L. Harter
Signal Officer	- 1st Lt. Samuel M. Turner
Hq. Comd't-	- Capt. Leroy E. Browen, Jr.

(2) Composition of Personnel and Equipment - (see inclosure # 1).

(3) Departure time - to remain at HQ ABTF (rear) in bivouac areas designated by Commanding Officer Detachment REAR until further orders.

(4) Medical Installation - Dispensary, HQ. Sq., 51st T.C. Wing.

b. Detachment REAR A.

(1) Staff.

(a) Commanding Officer - Major C. E. R. Dudgeon.

(b) Additional staff as designated by the Detachment Commander and reported to the Commanding Officer HQ ABTF (rear).

(2) Composition of Personnel and equipment.

(a) Group 1 - the first echelon of rear elements 2d Ind. Para. Bde. to move as seaborne forces. Other personnel (if any) will remain in locations designated by the Commanding Officer 2d In. Par. Bde. to await further orders.

Organization and movement plans of this group will be submitted to this HQ by D - 8.

(b) Group 2 - elements from all units of the 517th combat team assigned to Detachment REAR A (see incl. 2). Group Commander to be designated by Commanding Officer 517th combat team and reported to Commanding Officer HQ ABTF (rear).

(c) Group 3 - Remaining elements assigned to Detachment REAR A (see Incl. 2)

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(3) Loading of motor vehicles.

(a) Motor vehicles and trailers will carry maximum authorized loads of personnel and equipment prepared for both land and sea movement without material alteration of loads.

(b) T/E allowance of filled gasoline cans will be carried on each vehicle.

(4) Departure - time and place.

(a) All groups will be prepared to move to a port of embarkation on D - 5.

(b) Groups 1 and 2 will depart from present bivouacs.

(c) Group 3 personnel, with equipment, will report to the Commanding Officer Detachment REAR A at Task Force Headquarters by 2400 hour D - 6, and will be prepared for movment to a port of embarkation at time of reporting. Unit transportation will effect movement to Task Force HQ. and to the port of embarkation.

(5) Control - Control of the Detachment will pass to Near Shore Control, 7th Army, upon departure for a port of embarkation.

c. Detachment REAR B.

(1) Staff:

(a) Commanding Officer - Lt. Col. Leon B. Moye.

(b) Additional staff - as designated by the Detachment Commander and reported to the Commanding Officer HQ ABTF (rear)

(2) Composition of personnel and equipment - see incl, 3.

(3) Loading of Motor vehicles.

(a) Motor vehicles and trailers will carry maximum authorized loads of personnel and equipment prepared for both land and sea movement without material alteration of loads.

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(b) T/E allowance of filled gasoline cans will be carried on each vehicle.

(4) Departure - time and place.

Detachment will be prepared to move from the area of Task Force Headquarters to a port of embarkation by afternoon D + 1.

(5) Inspection of personnel and equipment loads.

The Commanding Officer Detachment REAR B will inspect the loading of vehicles and personnel reporting to him from Departure Air Bases and require such reloading or redistribution of loads as may be necessay to effect the orderly and safe movement of the detachment. He will report to the Commanding Officer HQ ABTF (rear) when vehicles and personnel are fully prepared for movement.

(6) Control - Control of the Detachment will pass to Near Shore Control, 7th Army, upon departure for a port of embarkation.

d. Assignment of personnel within each detachment.

(1) Assignment of individuals and equipment in rear echelon units to Detachment REAR, Detachment REAR A and Detachment REAR B will be made by the Commanding Officer of each unit in accordance with the organization plan detailed in inclosures one, two and three.

(2) Unit commanders will keep the Commanding Officer HQ ABTF (rear) currently informed of assignments.

4. FUNCTIONS OF DETACHMENTS OF HQ ABTF (rear)

a. General.

Detachment Commanders will be responsible for the mess, housing, administration, discipline, security and movement of personnel and equipment of the Detachment subject to supervision by the Commanding Officer HQ ABTF (rear). He will prepare and have available at all times a detailed loading and movement plan for the movement of his detachment in motor vehicles by land and water.

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b. Control of personnel.

(1) Units other than separate companies or smaller units, will detail an Officer from its element in Detachment REAR to be in command of each rear echelon element moving to a Departure Air Base as an assistant control Officer.

(2) Separate companies and smaller units will detail a NCO from its element in Detachment REAR to be in command of each rear echelon element moving to a Departure Air Base as an assistant control officer.

(3) Assistant control Officers provided above will remain at the Departure Air Base until the return (or a reasonable time has lapsed therefor) of the flight carrying persons from his unit. He will report by telephone the return of the flight to Commanding Officer HQ ABTF (rear), and handle the disposition of casuals as provided in paragraph c. following.

c. Disposition of Casuals.

(1) Casuals will consist of the following and will be disposed of in the manner indicated.

(a) Casualties incurred in flight. This personnel will be evacuated through Air Force medical channels of air fields to which aircraft return.

(b) All other removed from combat elements after leaving present bivouacs for Departure Air Bases, or returning to or being forced down near a Departure Air Base after take off of air echelons. Casuals of this type will report to the assistant control Officer of his unit, as provided in par. 4 b. Each such casual will be reported by name and serial number to HQ ABTF (rear) and returned to that Headquarters for disposition. Each assistant control officer is charged with the responsibility of collecting these casuals known to them to be either at the Departure Air Base where they are located, or elsewhere.

d. Security.

AR 380-5 "Safeguarding Military Information" will control communications of elements of HQ ABTF (rear). Reports of

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38

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troop locations, composition, strength, movement, plans, or other matters affecting HQ ABTF (rear) will be classified "TOP SECRET". No reports or comments will be made by rear Detachment personnel concerning the combat elements of the First Airborne Task Force, except by direction of Commanding Officer HQ ABTF (rear).

e. Rejoining parent unit.

Elements of rear echelons moving as seaborne forces will rejoin their parent units upon arrival at destination in the combat zone.

5. MISCELLANEOUS.

a. Amendment to plans.

Detailed instructions re-assigning personnel, co-ordinating loading plans, outlining time and space factors involved in movement, and other matters pertinent to units and rear detachments will be published as may be required by supplement or amendments to this annex specifically addressed to units and individuals concerned.

b. Use of unit designations.

First Airborne Task Force detachments organized by this annex will be referred to only by the name assigned each herein.

FREDERICK
Cmdg.

OFFICIAL:
BASSETT
G-4

3 Incl:
#1-Det. Rear
#2-Det. Rear-A
#3-Det. Rear-B

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Detachment REAR

BIGOT-DRAGOON

Incl #1 to Annex No. 6

EQUIPMENT	517th Prcht Inf			460th Prcht FA Bn	596th A/B Engr Co	509th Prcht Inf	550th A/B Inf Bn	551st Prcht Inf Bn	463rd Prcht FA Bn	512th A/B Sig Co	Hq & Hq Co 1st ABTF
Truck 1/4-ton											3
Truck 3/4-ton											1
Truck 2½-ton	1										
Trailer 1-ton	1										
Van (Prcht eq)						3					
Ir Corps Prop (in tons)			200					45	56		
Pers. Baggage (in tons)			66					33			
Office supplies (in tons)			8					4			
Signal Equip (in tons)										15	
Misc. Org. Equip. (in tons)						20		3			
OFFICERS & WOs	1		4	1		1		1	1	1	10
ENLISTED MEN	13	3	19	6	3	35	6	17	10	10	47
TOTAL MTR. EQUIP.			2			3					4
TOTAL PERSONNEL	14	3	23	6	3	36	6	18	11	11	57

NOTE: Figures on this chart only are estimates - Incls #2 and #3 are not variable.

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HQ 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 august 1944.

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Date: 4 Aug 1944

Organization Plan

Detachment REAR A

HQ 1st A/B Task Force
APO 758, U. S. Army
4 August 1944

Incl #2 to Annex No. 6

UNIT / EQUIPMENT	Lorry 3 ton	Truck 1/4-ton	Truck 3/4-ton w/c	Truck 2½-ton cargo	Ambulance 3/4-ton	Staff car	Trailer 1/4-ton	Trailer 1-ton	Trailer 10 cwt	Motorcycle, solo	OFFICERS & WOs	ENLISTED MEN	TOTAL MOTOR EQUIP	TOTAL PERSONNEL
2d Inf Para Bde	105	48	22		8	1			11		19	499	195	518
517th Prcht Inf		17	1				12	1			2	21	31	23
460th Prcht FA Bn		18	1	1				1				25	21	25
596th A/B Eng Co		3					3					3	6	3

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Incl #2 to Annex No. 6

UNIT / EQUIPMENT	Lorry 3-ton.	Truck 1/4-ton	Truck 3/4-ton w/c	Truck 2½-ton cargo	Ambulance 3/4-ton	Staff car	Trailer 1/4-ton	Trailer 1-ton	Trailer 10 cwt	Motorcycle, solo	OFFICERS & WOs	ENLISTED MEN	TOTAL MOTOR EQUIP	TOTAL PERSONNEL
509th Prcht Inf		11	1				6	1		1		16	20	16
551st Prcht Inf		5					5				1	6	10	7
602nd Gl FA Bn		12	1				1	1			1	38	15	39
463rd Prcht FA Bn		21		1			21	1			2	20	44	22
442nd A-T Co			1					1				2	2	2
"A" Co, 2nd Chm Bn			5					5			1	49	10	50
"D" Co, 83rd Chm Bn			5					5			2	43	10	45

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DIGEST DIAGRAM

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: Auth: CG 1st ABTF:
: Init: :
: Date: 4 Aug 1944 :

Organization Plan

Detachment REAR B

HQ 1st A/B TASK FORCE
APO 758, U. S. ARMY
4 August 1944

Incl #3 to Annex No. 6

UNIT / EQUIPMENT	Truck 1/4-ton	Truck 3/4-ton w/c	Truck 1½-ton cargo	Truck 2½-ton cargo	Truck 3/4-ton C & R	" small arms rep.	" Arty repair	" small arms pts	" instr. & repair	Ambulance 3/4-ton	Staff car	Wrecker 4-ton truck	Trailer 1/4-ton	Trailer 1-ton	Trailer, welding	" 250 gal. water	Motorcycle, solo	57 mm A - T guns	OFFICERS & WOs	ENLISTED MEN	TOTAL MTR EQUIP	TOTAL PERSONNEL
517 Prcht Inf				15	16					2				16					2	54	34	56
460 Prcht FA Bn														15					1	21	30	22
596th A/B Eng Co		2		2										2						5	6	5
509th Prcht Inf	1			9	1					1				8		1	2		4	75	23	79
550th A/B Inf Bn				7										3					1	39	10	40

Contd. (over)

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Incl #3 to Annex No. 6

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UNIT / EQUIPMENT	Truck 1/4-ton	Truck 3/4-ton w/c	Truck 1½-ton cargo	Truck 2½-ton cargo	Truck 3/4-ton C & R	" small arms rep.	" Arty repair	" small arms prts.	" instr. & repair	Ambulance 3/4-ton	Staff car	Truck 4-ton wrecker	Trailer 1/4-ton	Trailer 1-ton	Trailer, welding	" 250-gal. water	Motorcycle, solo	57 mm A-T guns	OFFICERS & WOs	ENLISTED MEN	TOTAL MTR EQUIP	TOTAL PERSONNEL
551st Prcht Inf Bn		3								1			2	5					1	23	20	24
602nd Gl FA Bn		2												7					1	47	15	48
463rd Prcht Fl. Bn	5	1		6										24					1	34	54	35
512th A/B Sig Co																			1	16	23	16
442nd A-T Co		1	11											2				9				
"A" Co 2nd Chm Bn				9										5					1	52	12	53
"D" Co 83rd Chm Bn				9										4					1	46	13	47
887th A/B Eng Co		1		6										3		1				10	10	10
676th Med Coll. Co		1		1											1					4	3	4
3rd Ord Co Det		1		1		2							1	3						44	13	44
Hq & Hq Co 1st ABTF		4		5	1		1		1	1	1		1	13	1				3	148	30	165
79th Fin. Dis. Sec.																			17	17	2	20

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Field Order No. 12

Third Infantry Division

August 1 1944

To A.D. Reg.

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*Date: 1 August 1944 *
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HQ 3D INF DIV REINF
NAPLES, ITALY
1 AUGUST 44

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FIELD ORDER #12

	No. of Copies	Numbers
VI CORPS	20	1 - 20
NAVY	10	21 - 30
DIVISION HISTORY	10	31 - 40
Commanding General	1	41
Asst Commanding General	1	42
Chief of Staff	1	43
Adjutant General (and Record)	2	44 - 45
G - 1	1	46
G - 2	2	47 - 48
G - 3	2	49 - 50
G - 4	2	51 - 52
Chemical Officer	1	53
Ordnance Officer	1	54
Engineer Officer	1	55
Quartermaster Officer	1	56
Signal Officer	1	57
Surgeon	1	58
Provost Marshal	1	59
7th Infantry	5	60 - 64
15th Infantry	5	65 - 69
30th Infantry	5	70 - 74
Comdg General; 3rd Division Artillery	1	75
Hq & Hq Btry, 3rd Division Artillery	1	76
9th Field Artillery Battalion	1	77
10th Field Artillery Battalion	1	78
39th Field Artillery Battalion	1	79
41st Field Artillery Battalion	1	80
10th Engineer Battalion	3	81 - 83
3rd Medical Battalion	3	84 - 86
3rd Quartermaster Company	1	87
3rd Signal Company	1	88
3rd Reconnaissance Troop	1	89
703rd Ordnance Company	1	90
Division Headquarters Company	1	91
Headquarters Special Troops	1	92
634th Field Artillery Battalion	1	93
36th Field Artillery Battalion	1	94
5th Anti-Aircraft Artillery Group	5	95 - 99
756th Tank Battalion	1	100
601st Tank Destroyer Battalion	1	101
~~Det 6th Chemical Depot Company~~	~~1~~	~~102~~
Det 11th Chemical Maint Company	1	103
3rd Chemical Battalion (Mtzd)	3	104 - 106
2nd Battalion 343rd Engr Gen Sv Regiment	1	107

G-3

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	No. of Copies	Numbers
Det 6617th Engineer Mine Clearing Company	1	108
10th Field Hospital	1	109
69th Armored Field Artillery Battalion	1	110
95th Evacuation Hospital	1	111
43rd Ordnance Battalion, Hq & Hq Det	3	112 -114
Beach Group	10	115 -124
Spares	26	125 -150

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OFFICIAL: /s/ CONNOR

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Date: 1 August 44

HQ 3D INF DIV REINF
NAPLES, ITALY
1 AUGUST 44

ADDENDA
To
FIELD ORDER 12

Annex 4 d - Waterproofing Instr, Sig Equipment - Omitted.
Annex 4 g - G - 1 Instructions - To be issued.
Annex 7 - Naval Gunfire - To be issued.
Annex 8 - Air Support - To be issued.

O'DANIEL
COMDG

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*Date: 1 August 44 *
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HQ 3D INF DIV (REINF)
NAPLES, ITALY
1 AUGUST 1944

FIELD ORDER #12

MAPS: 1/25,000 FRANCE - Sheets XXXV 46, 1 & 2; XXXV 45, 5 & 6; XXXV 45, 7 - (GSGS 4411).

1. a. See Intelligence Annex #2.
b. (1) American Seventh Army conducts an amphibious assault against SOUTHERN FRANCE in the sector EAST of TOULON with an immediate mission of capturing that port for use in future operations.
(2) VI Corps on D Day H Hour makes a simultaneous daylight assault on beaches from CAP CAVALAIRE to AGAY employing three divisions abreast; advances rapidly inland to contact the PROV AIRBORNE DIV in the LE MUY area; extends the beachhead, outposts the high ground NORTH of ST RAPHAEL and FREJUS with sufficient forces to secure the airfield sites in the ARGUS VALLEY between FREJUS and LE MUY, and protect the right flank of the assault, seizes LE MUY with a mobile striking force; thereafter advances to the NORTHWEST maintaining contact with the I French Corps on the left after it is established ashore and in its subsequent attack on TOULON; releases the French Groupe de Commandos, CCI, 1st French Armd Div, and all airborne forces to Army control on Army Order.
(3) 1st SS Force prior to daylight D Day, lands on islands of PORT CROS and LEVANT and reduces all enemy resistance thereon.
(4) French Groupe de Commandos lands in the vicinity of CAPE NEGRE prior to daylight D Day, destroys enemy defenses on CAPE NEGRE, blocks coastal highway vicinity CAPE NEGRE and seizes high ground 2 miles NORTH of CAPE NEGRE to protect the left flank of the assault.
(5) An Airborne Force lands on the high ground NORTH and WEST and SOUTH of LE MUY with the primary mission of preventing the movement of enemy forces into the assault area from the WEST and NORTHWEST, and with a secondary mission of assaulting enemy defenses from the rear.
(6) CCI, 1st French Armd Div on Corps order, lands over beaches as directed by CG VI Corps, landing to be completed by D + 2; assembles vicinity FREJUS or as otherwise directed by CG VI Corps, prepared for offensive action to the WEST or NORTHWEST.
(7) 5th AAA Group, initially in direct support, provides AA protection for Third Infantry Division zone.
(8) Naval Gunfire Support (Annex # 7).
(9) Air Support (Annex # 8).

2. Third Infantry Division (Reinf):
a. Lands assault forces on beaches RED and YELLOW and clears them of enemy resistance.
b. Captures SAN TROPEZ, [illegible], and COGOLIN and clears SAN TROPEZ Peninsula with all possible speed.
c. Advances rapidly and aggressively inland, coordinates all elements at earliest moment possible and continues advance with utmost speed to Corps Beachhead Line, prepared to continue the advance to the WEST on Corps Order.
d. Destroys all resistance encountered.
e. Employs mobile armored reconnaissance detachments landing with leading elements to reconnoiter all roads in zone and to gain contact with French Groupe de Commandos vicinity CAPE NEGRE.
f. Protects Corps left flank.
g. Coordinates advance with 45th Inf Div on right.
h. When passed through by elements I French Corps in left of zone, regroups elements passed through for continued offensive action in right of zone.

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i. Maintains contact with I French Corps on left when passage is effected.

3. a. 7th Infantry (Reinf)(See Troop List, Annex #3a).

Beach: RED

(1) Land 2 Bns at H Hour to reduce beach defenses in regtl zone of action to protect subsequent landings.
(2) Land remainder of Regt in accordance with landing schedule, advance rapidly to initial beachhead line and destroy enemy forces in zone of action.
(3) Occupy initial beachhead line in zone of action with particular attention to Areas A, B & C, and hold enemy forces beyond that line.
(4) Upon seizure of Objective C, advance rapidly, seize and hold Obj D.
(5) Employ Regtl battle Patrol to assist in clearance of defenses WEST of beach RED to regtl beachhead line.
(6) Employ 30th Inf battle patrol to assist in clearance of defenses EAST of beach RED to regtl beachhead line and to gain contact with 3rd Ren Troop battle patrol (Para 3 b (4)).
(7) Establish and maintain contact with 15th Inf on right.
(8) Reconnoiter aggressively toward CAPE NEGRE, establish and maintain contact with French Groupe de Commandos in that vicinity.
(9) Protect Div left flank.
(10) On Div order advance in zone from Obj's A, B, and D, seize and hold Div beachhead line in zone prepared to continue the advance to the WEST along the axis of Highway 98 WEST through LA MOLE.

b. 15th Infantry (Reinf)(See Troop List, Annex #3 a).

Beach: YELLOW

(1) Land 2 Bns at H Hour to reduce beach defenses in regtl zone of action to protect subsequent landings.
(2) Land remainder of Regt in accordance with landing schedule, advance rapidly to initial beachhead line and destroy enemy forces in zone of action.
(3) Occupy initial beachhead line in zone of action with particular attention to Areas F and E, and hold enemy forces beyond that line.
(4) Employ 3rd Ren battle patrol to assist in reduction of coastal defenses SOUTH of Beach YELLOW to regimental beachhead line, and to gain contact with 30th Inf battle patrol (Para 3a (6)).
(5) Employ regtl battle patrol to assist in reduction of coastal defenses NORTH of Beach YELLOW and EAST of SAN TROPEZ.
(6) Establish and maintain contact with 7th Inf on left.
(7) Upon occupation of regimental beachhead line, continue the advance and cut the COGOLIN-ST TROPEZ Highway at Point W as indicated (Opns Overlay), isolate and reduce ST TROPEZ, and destroy with all possible speed enemy forces on SAN TROPEZ Peninsula within regimental zone of action.
(8) On Div order, assemble in Div reserve vicinity COGOLIN.

c. 30th Infantry (Reinf)(See Troop List, Annex #3 a)

Beach: RED

(1) Land regiment in accordance with the landing schedule, advance rapidly to the NORTH, pass through the 7th Inf, seize and hold in force RJ at 441159, and high ground immediately to the SOUTHWEST.
(2) Advance rapidly to the NORTHWEST, seize and hold Div Beachhead Line in zone with particular attention to Areas G, H, & K.
(3) Clear enemy forces without delay from COGOLIN.
(4) Establish and maintain contact with 15th Inf on right and 7th Inf on left.
(5) Establish and maintain contact with 45th Inf Div on right.
(6) Protect Division right flank.
(7) Destroy enemy forces in zone.
(8) Upon relief by the 45th Inf Div from Areas G and H, and on Div order

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continue the advance to the WEST along the axis of the COGOLIN - COLLOBRIERES Highway.

d. Division Artillery (Reinf)(See Troop List, Annex #3 a)

See Artillery Annex #6.

e. 3rd Rcn Troop:
(1) Land on Beach RED in accordance with the landing schedule.
(2) Reconnaissance and screening mission in accordance with Para. 3, Intelligence Annex.
(3) Establish and maintain contact with French Groupe de Commandos vicinity CAPE NEGRE.

f. Troop C, 117th Rcn Sqd:
(1) Land on Beach YELLOW in accordance with the landing schedule.
(2) Reconnaissance and screening mission in accordance with Para. 3, Intelligence Annex.

g. 756th Tank Bn (- Co's A & B)
(1) Land 1 Co in LCT's on Beach RED in accordance with landin schedule to occupy assembly area indicated in division reserve. Co to be prepared on Div order to move NORTH and support the attack of the 30th Inf or to reinforce Bn elements attached to 7th Inf.
(2) Land remainder of Bn in accordance with landing schedule, assemble in area indicated and take over mission assigned company above.

h. 601st TD Bn (- Co's A & B)
(1) Land on Beach RED in accordance with landing schedule, occupy assembly area indicated. Reconnoiter at once for position areas and tank approaches with particular attention to an attack from the NORTH astride Highway 559.
(2) Support the attack of the 30th Inf with not less than one company without delay after elements have been landed.
(3) Anti-Tank Annex #9.

i. 3rd Chemical Bn (- Co's A, B & C)
(1) Land on Beach RED in accordance with landing schedule and occupy assembly area indicated.
(2) Reconnoiter for and be prepared to occupy positions in support of 7th Inf which will enable the placing of fire on Highway 98.

j. 10th Engr Bn (Reinf)(See Troop List, Annex #3 a)
(1) Engineer Instructions, Annex #11.
(2) Bn (- Co B) will be prepared to assemble on two hours notice in vicinity of Div CP in Division reserve.

k. Beach Group: (See Troop List, Annex #3 a)
(1) Shore Engineer Instructions, Annex #13.
(2) Shore Engineers will be prepared on order to occupy positions and defend the beach area against attack.

x. (1) Upon the occupation of each successive objective, strong reconnaissance patrols, employing motors where practicable will be sent forward and to the flanks.
(2) D Day H Hour to be announced.
(3) Beach assault Bns will clear rapidly and aggressively coastal defenses that will seriously interfere with the landing of LCI's. Should enemy opposition interfere seriously with the landing of craft other than LCVP's the Naval Commander will order TREADMILL executed, at which time craft will circle offshore until opposition has been reduced.
(4) Craft carrying tanks or SP weapons will be loaded so as to permit maximum delivery of fire against the beaches.
(5) DD Tanks will not be launched from LCT's unless it is impracticable for the LCT'S to beach due to enemy fire or beach obstacles.

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(6) If no underwater obstacles are encountered or if obstacles will not prevent the beaching of LCVP'S, assault battalions will discharge RED Smoke Grenades immediately on beaching. When enemy defenses in the immediate beach area are neutralized, assault troops will discharge VIOLET Smoke Grenades. YELLOW Smoke Grenades will be used to indicate presence of friendly troops to friendly planes. In the event that underwater obstacles will prevent LCVP's from beaching a GREEN Parachute Flare will be discharged from each LCVP encountering difficulty.

(7) Smoke Employment Instructions, Annex #12.

4. Administrative Order, Annex #4.

5. a. CP's Afloat:

Headquarters 3d Inf Div	USS DUANE
Alternate	LST #221 (ASN)
7th Infantry	LCI #301 (ASN)
15th Infantry	USS HENRICO
30th Infantry	LCI #321 (ASN)
Div Artillery	LST #207 (ASN)
Beach Group	LCI #333 (ASN)

Ashore:

Hq 3d Inf Div (Operations Map) (Others to be announced).

b. See Signal Instructions, Annex #5.

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Inclosures

Annexes (15)

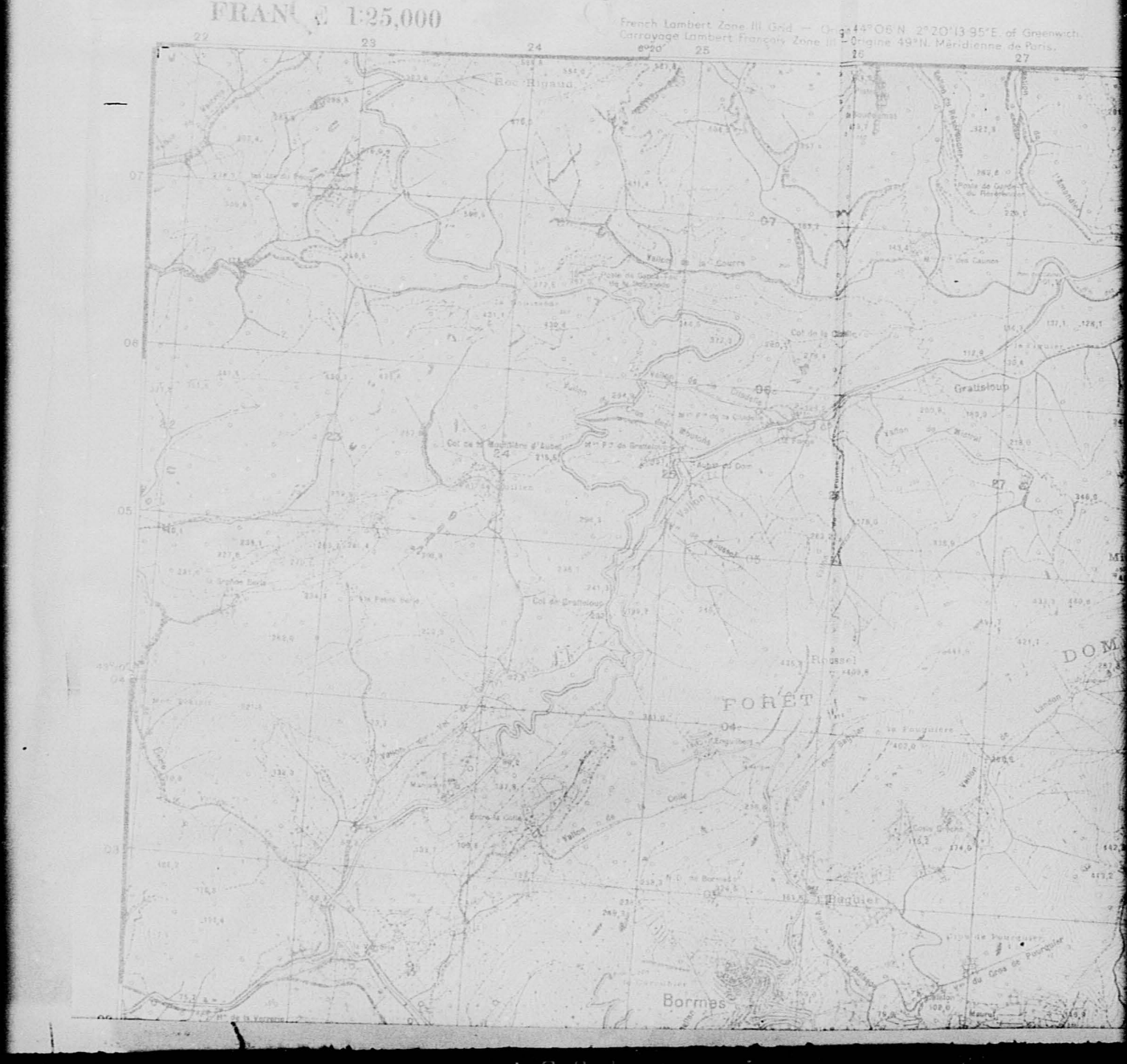
1. Operations Map
2. Intelligence Annex
3. a. Troop List
   b. Vehicle Lift
   c. Landing Diagram
   d. Landing Schedule
   e. Loading Diagram
4. Administrative Order
5. Signal Instructions
6. Artillery
7. Naval Gunfire
8. Air Support (To be issued)
9. Anti-Tank Instructions
10. AA Instructions
11. Engineer Instructions
12. Smoke Employment Instructions
13. Shore Engineer Instructions
14. Alternate Plan CROSSBOW, w/Annexes (To be issued).
15. Alternate Plan ARROWHEAD, w/Annexes (To be issued).

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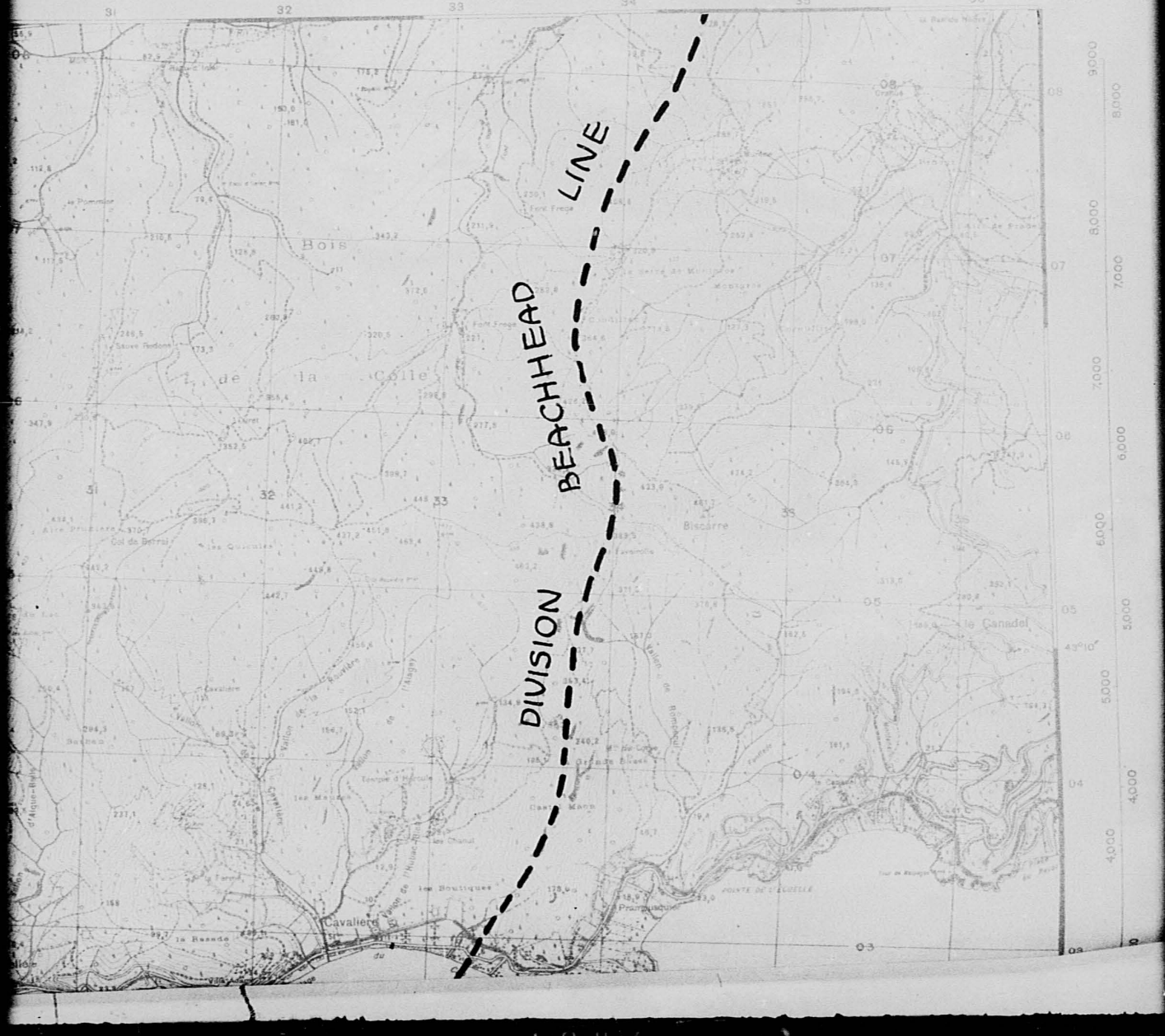
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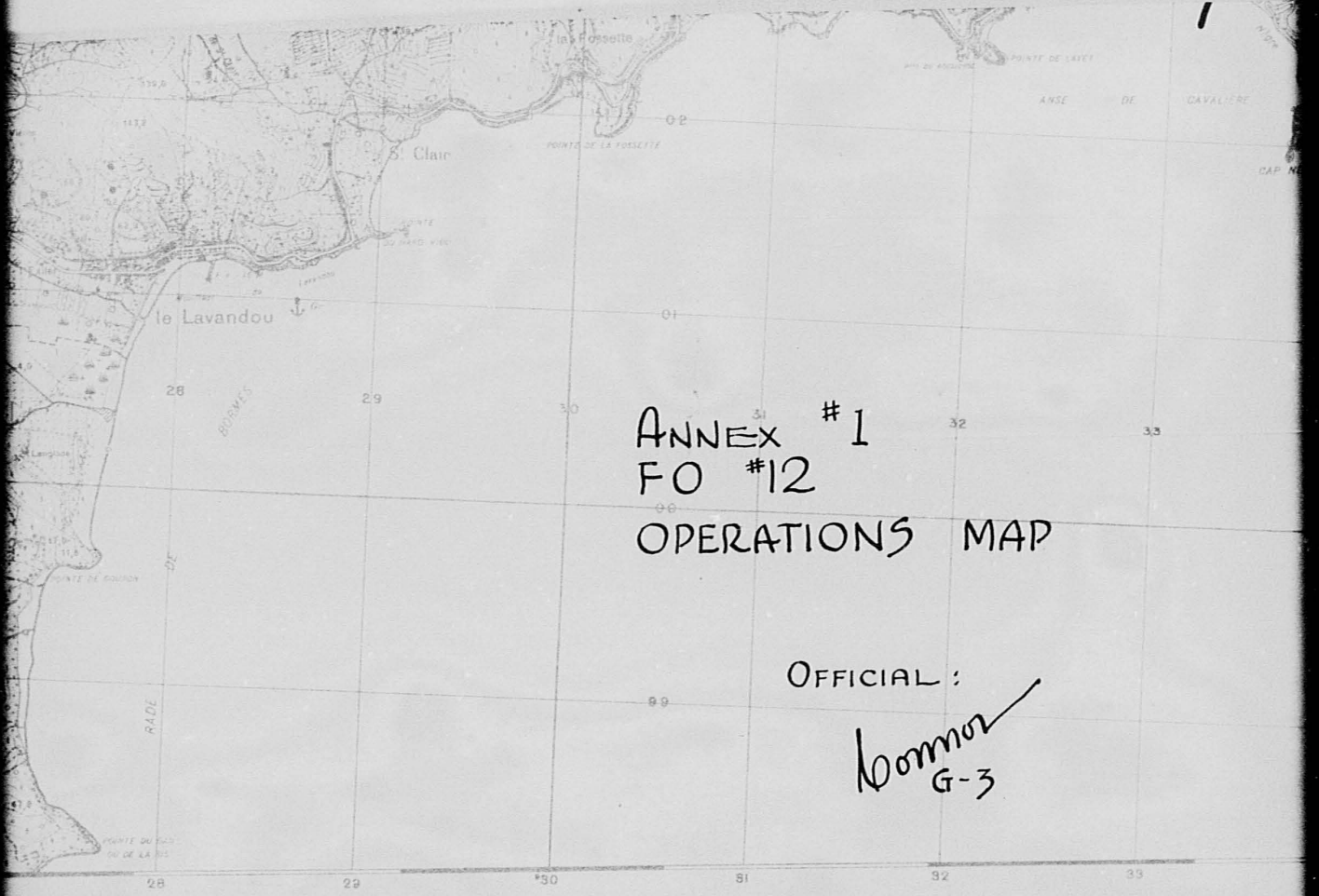
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ANNEX #1
FO #12
OPERATIONS MAP

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Scale 1:25,000 Echelle

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1000 500 0 ¼ ½ ¾ Mile
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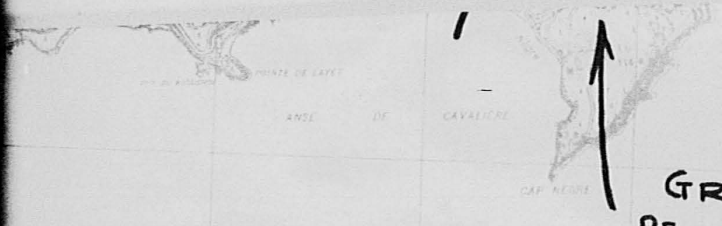
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NAPLES, ITALY
AUGUST 1ST, 1944

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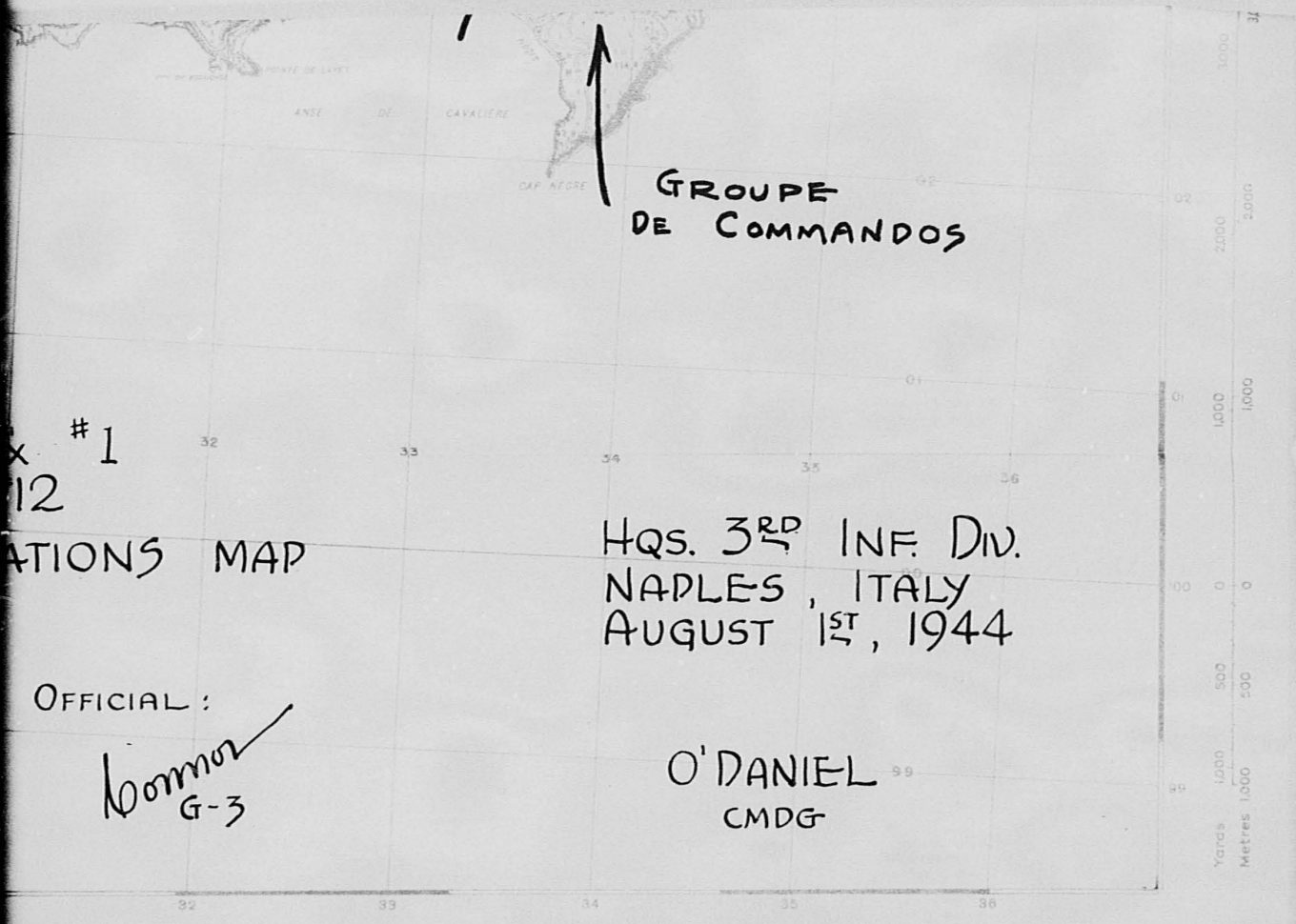
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NAPLES, ITALY
AUGUST 1ST, 1944

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CMDG

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Prepared by 3rd Corps Field Survey Sec. R.E. July 1944

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POINT FONT FREGE
NORTH NORD

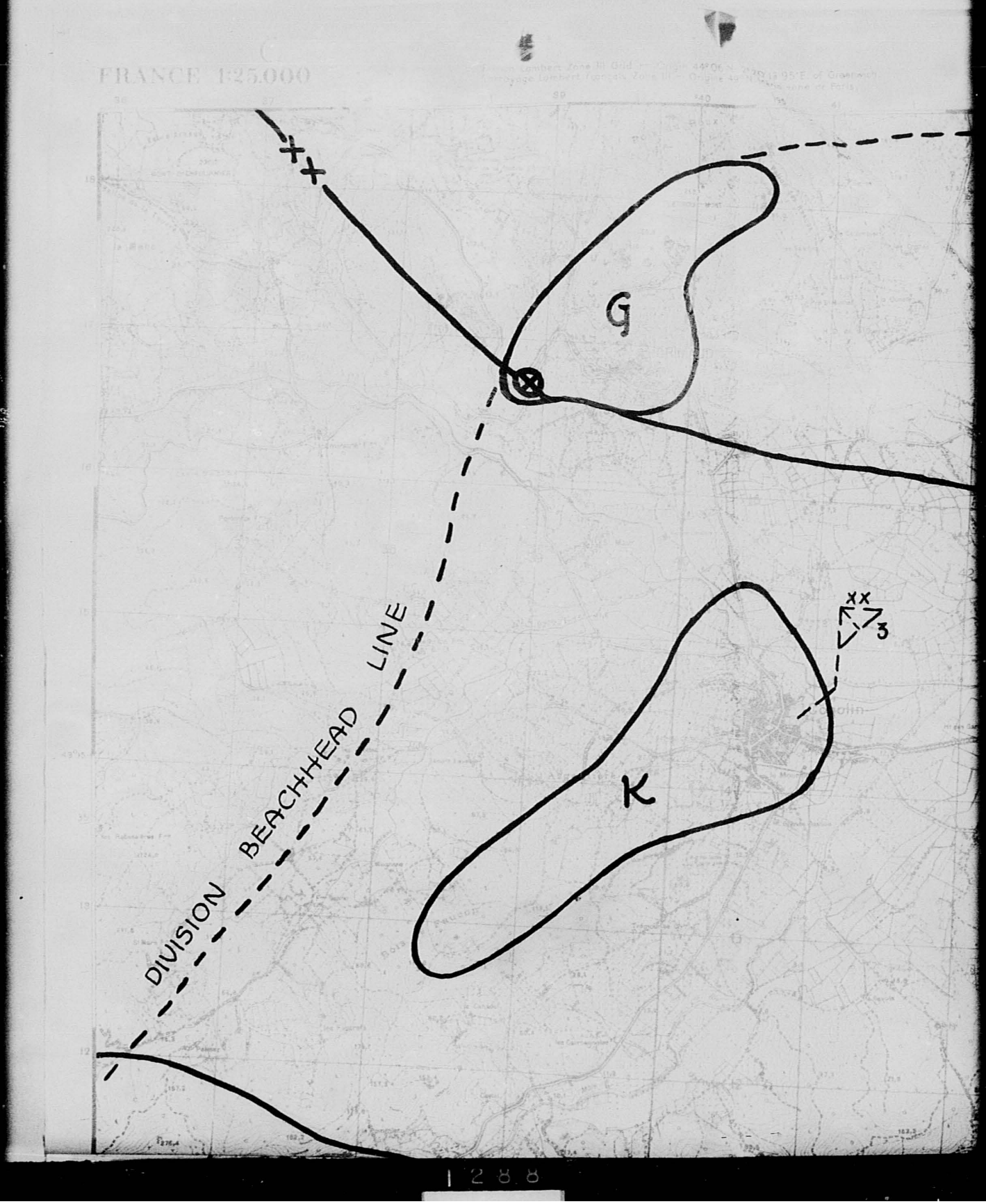
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ANNEX #1
FO #12
OPERATIONS

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POUR TOUTE REFERENCE MENTIONNER
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ANNEX #1
FO #12
OPERATIONS MAP

HQS. 3RD INF. DIV.
NAPLES, ITALY
AUGUST 1ST, 1944

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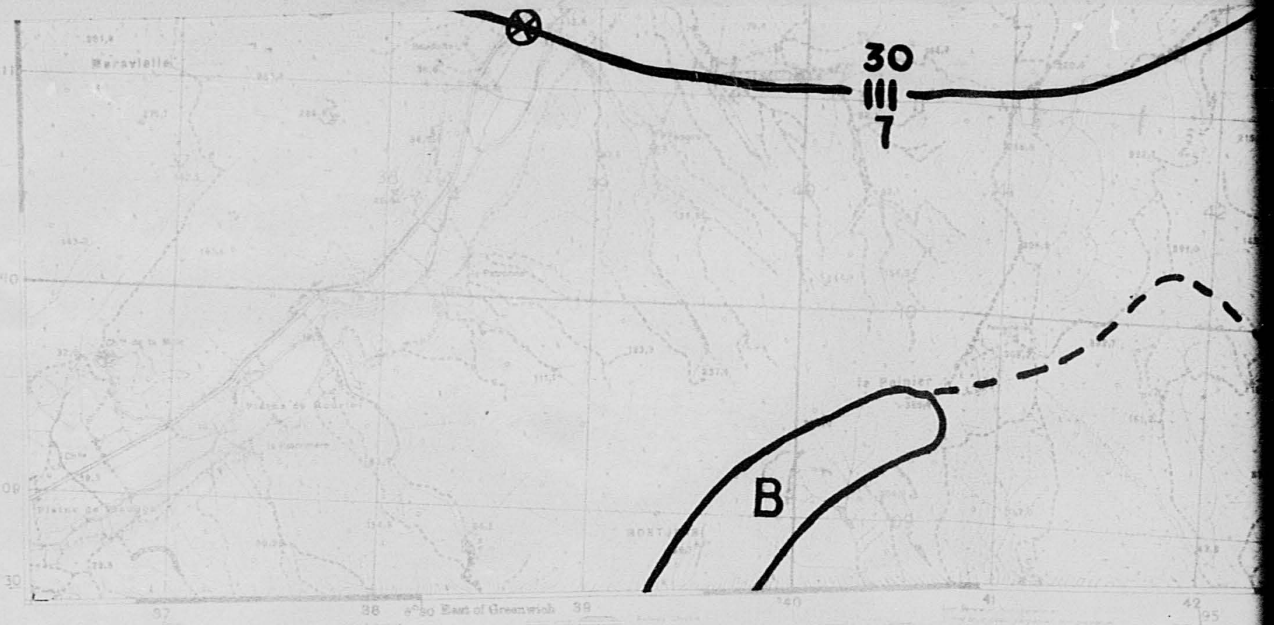
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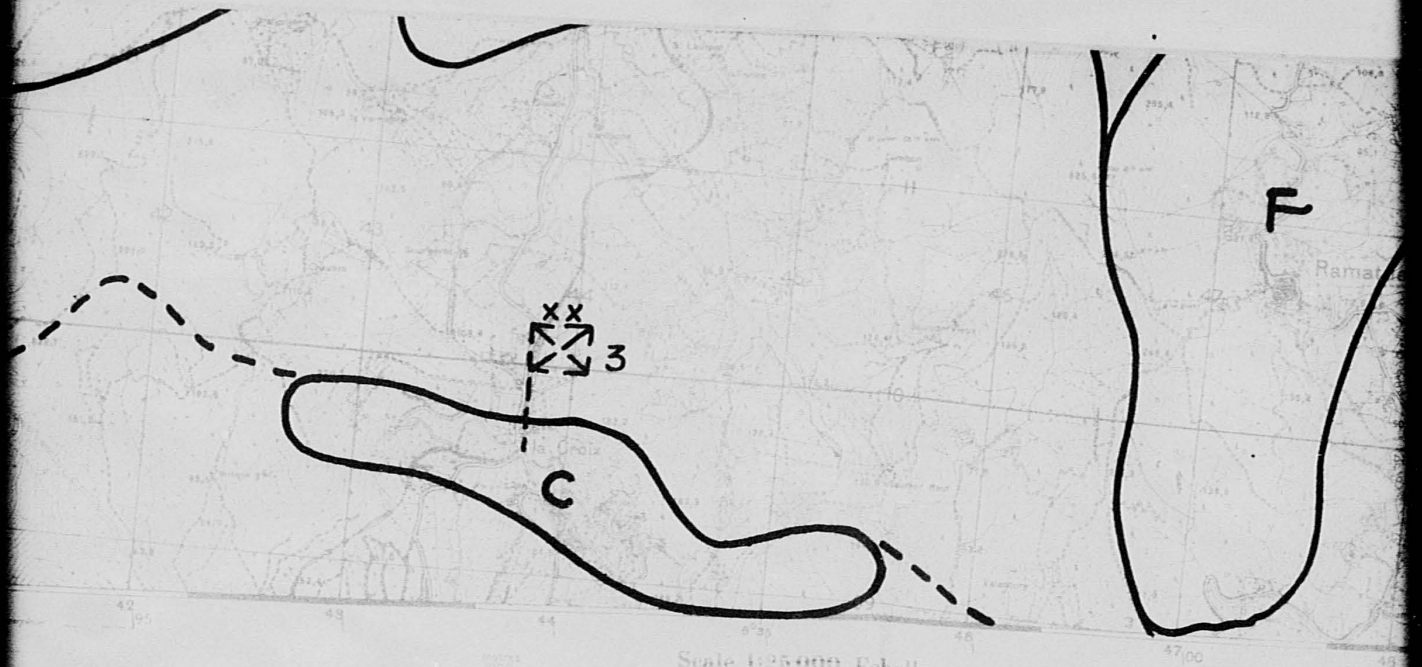
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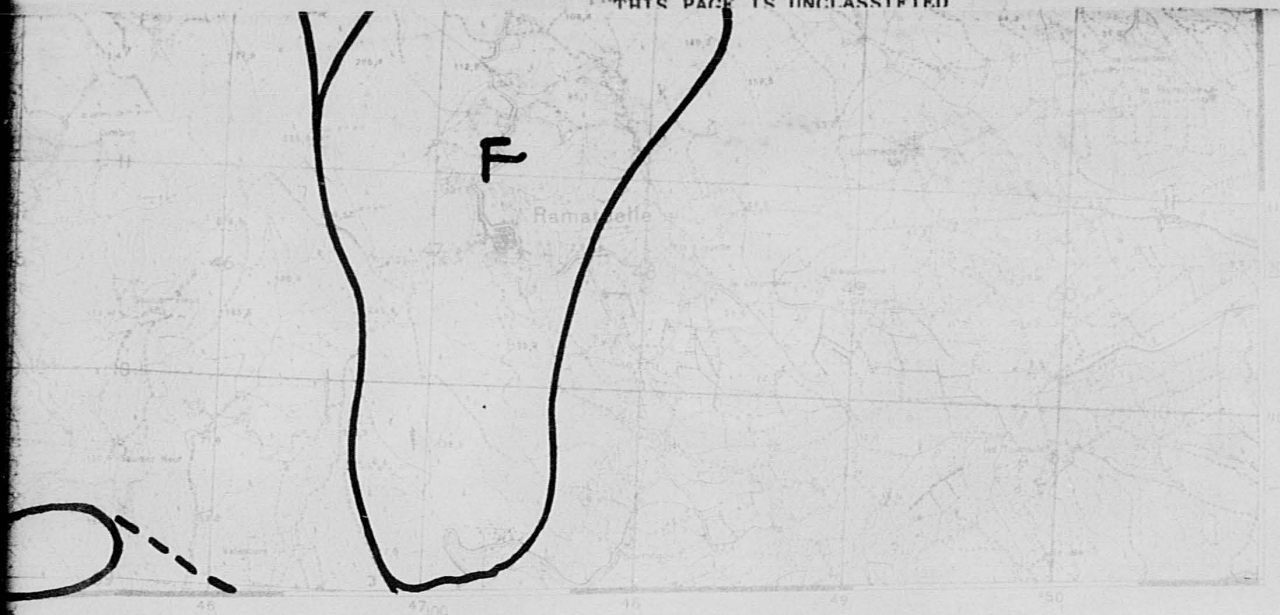
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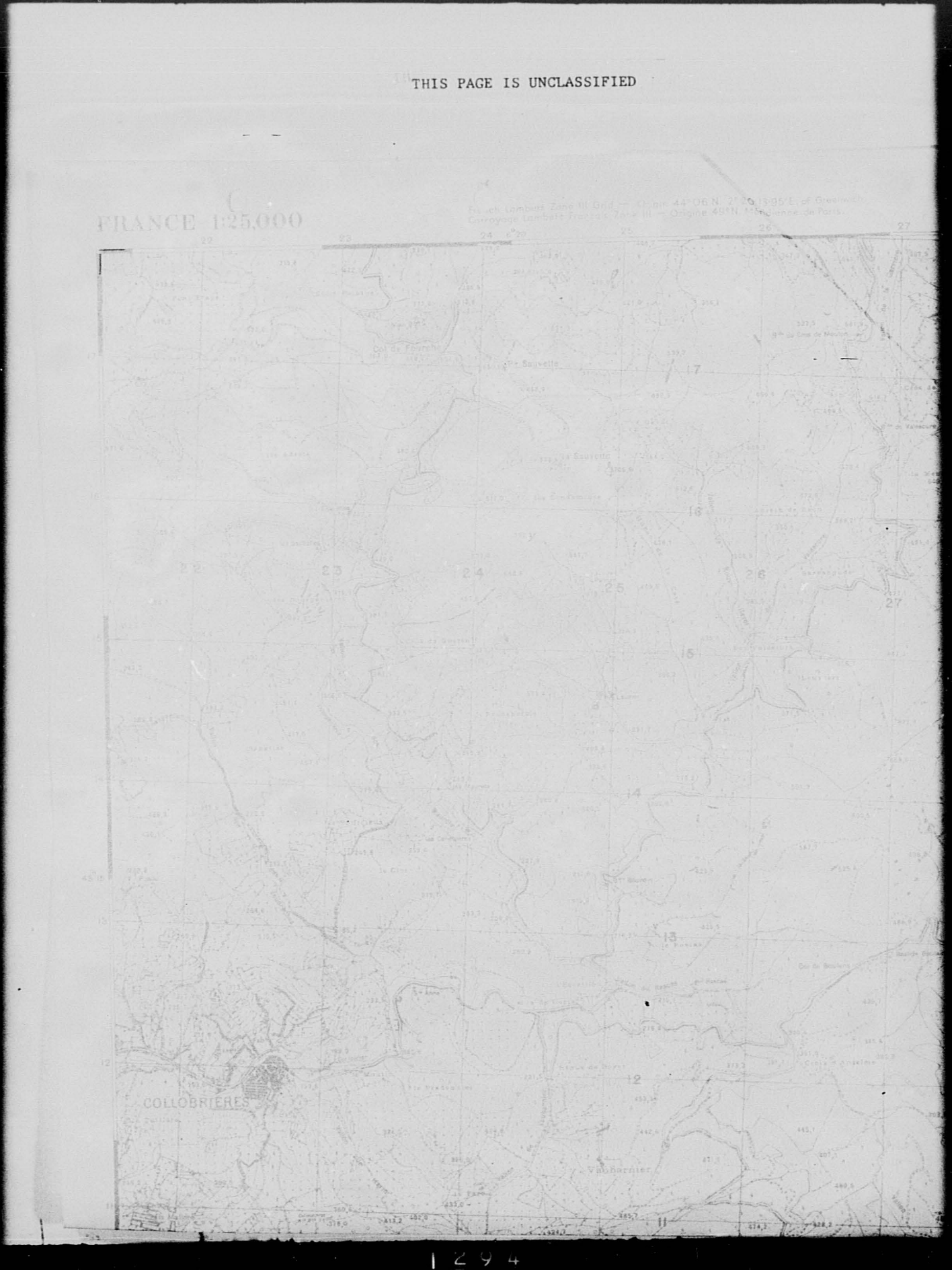
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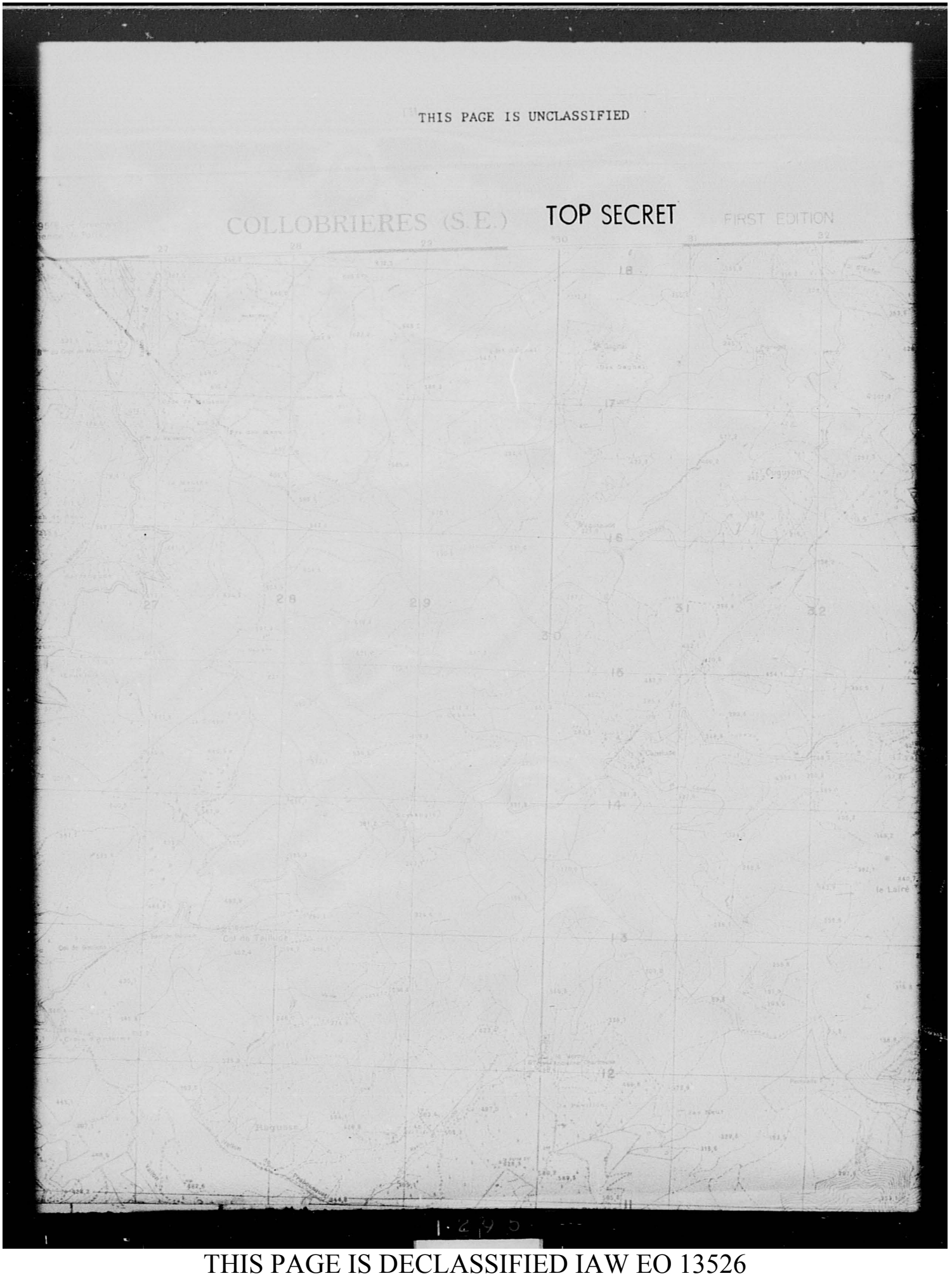


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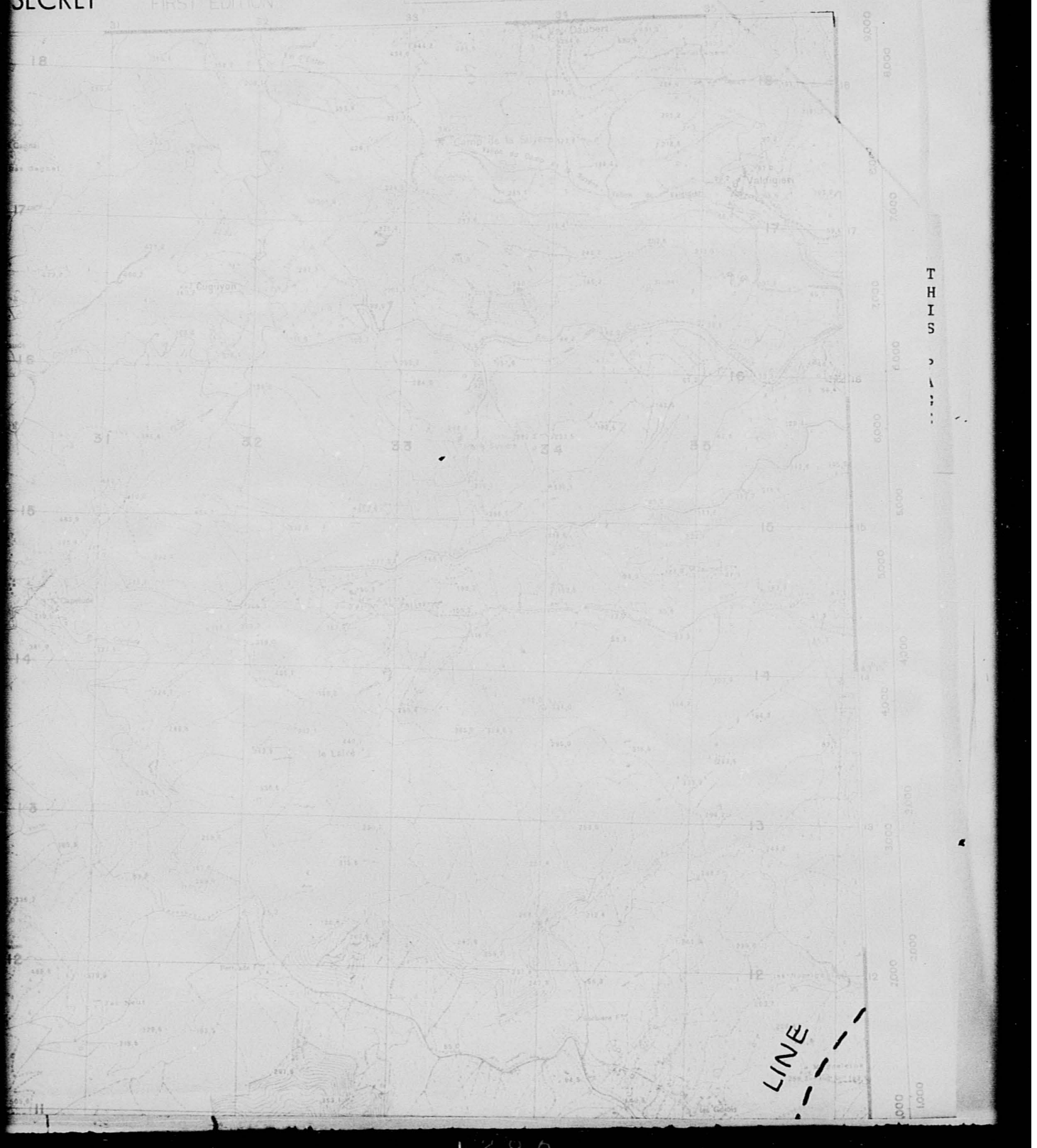
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ANNEX #1
FO #12
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HQS. 3RD INF. DIV.
NAPLES, ITALY
AUGUST 1ST, 1944

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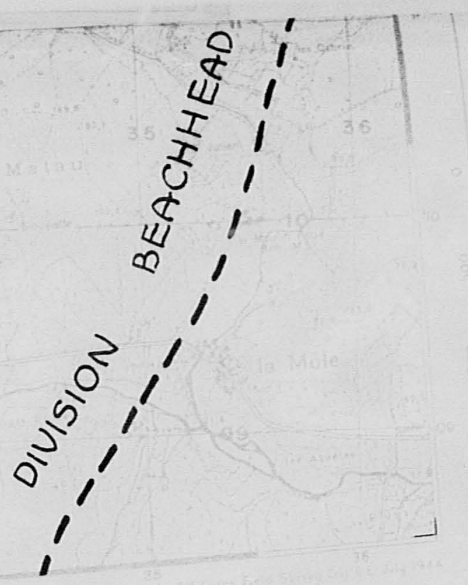
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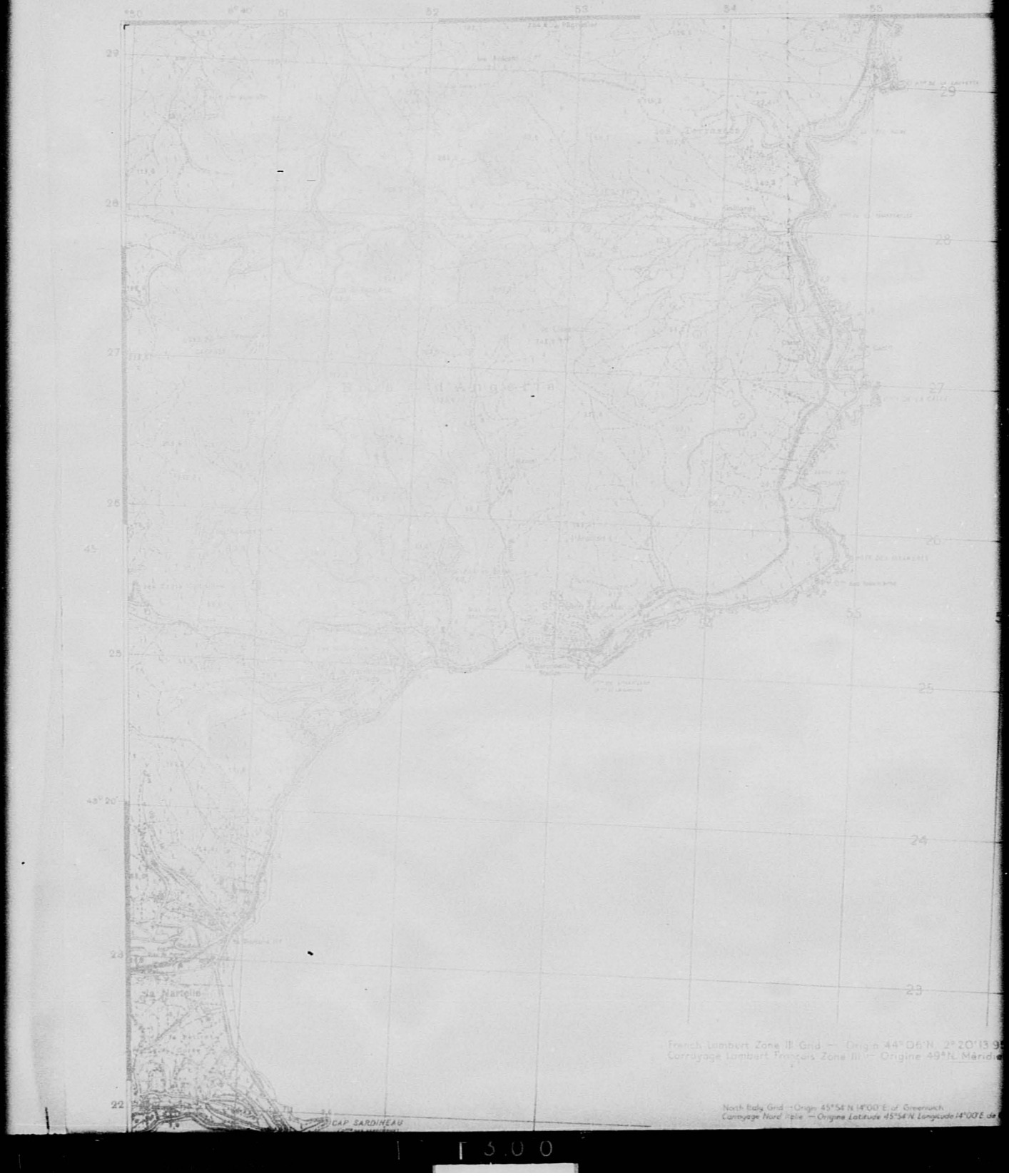


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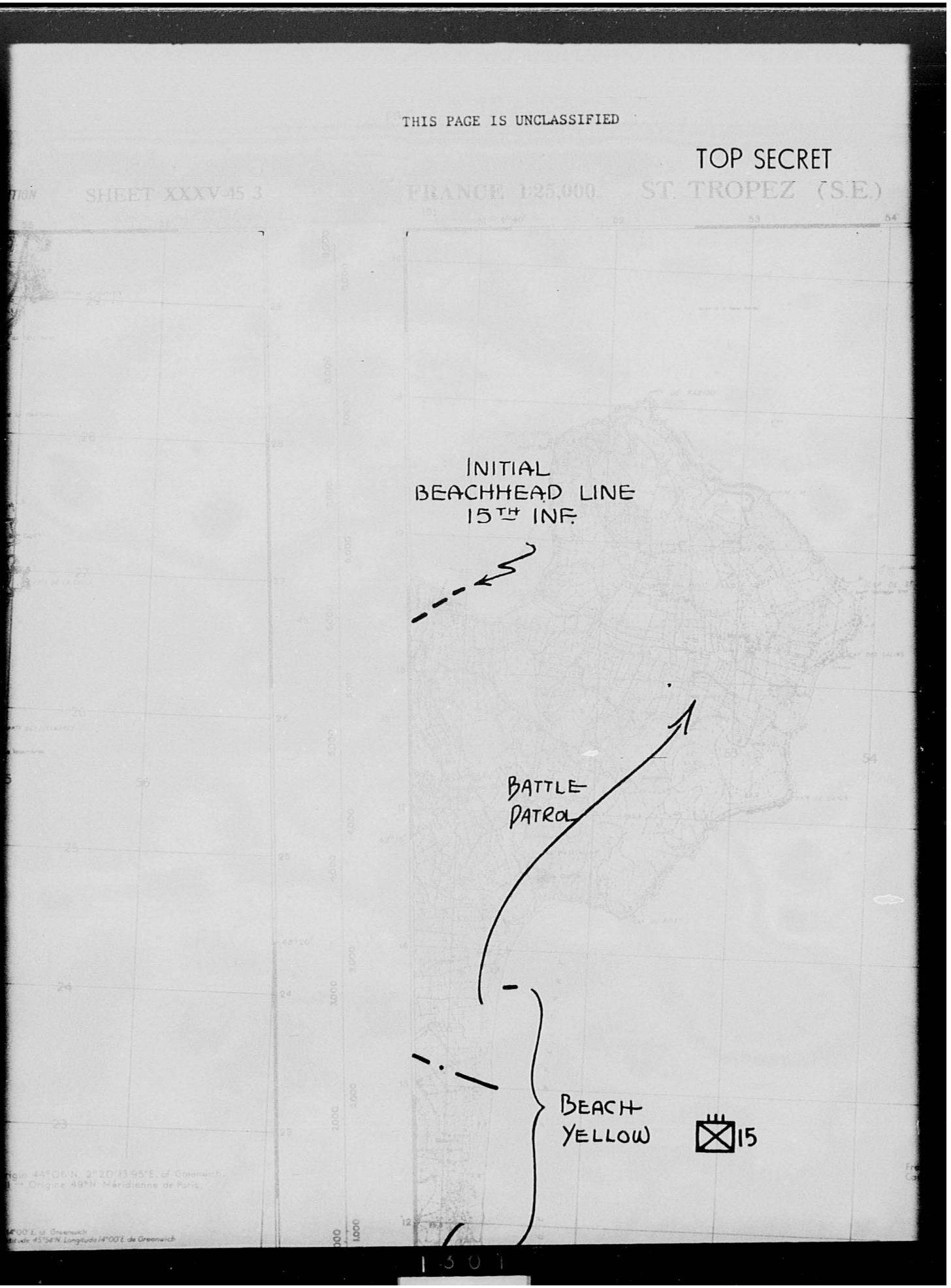


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ANNEX #1
FO #12
OPERATIONS MAP

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HQS. 3RD INF. DIV.
NAPLES, ITALY
AUGUST 1ST, 1944

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French Lambert Zone III Grid — Origin 44°06'N, 2°20'13.95"E. of Greenwich
Carroyage Lambert Français Zone III — Origine 49°N. Méridienne de Paris.

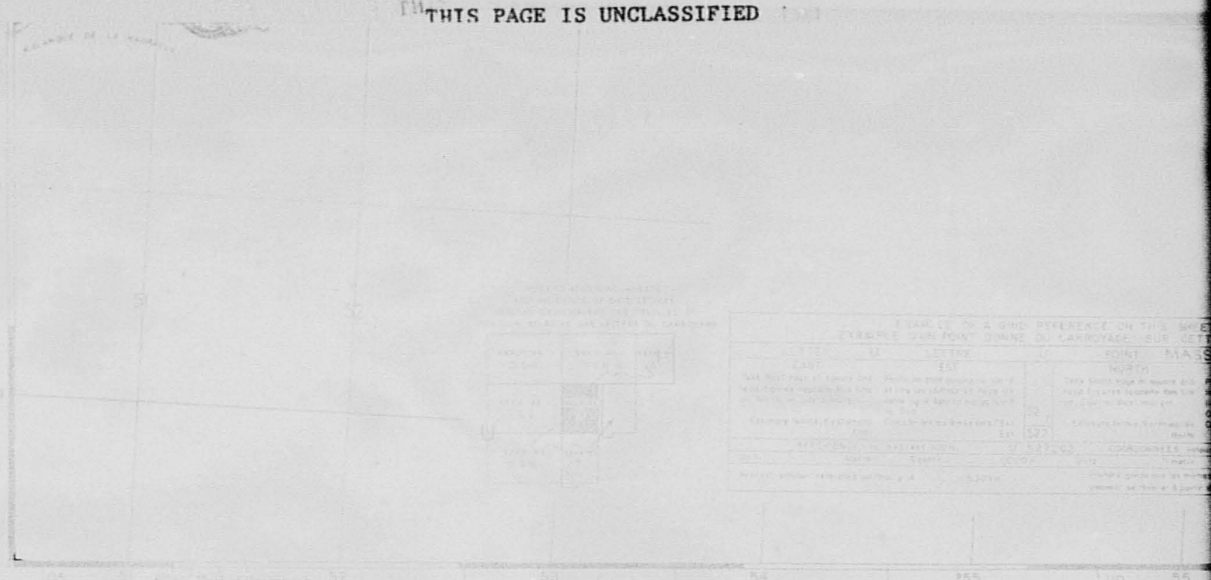
North Italy Grid — Origin 45°N 14°00'E of Greenwich
Carroyage Nord Italie — Origine Latitude 45°N Longitude 14°00'E de Greenwich

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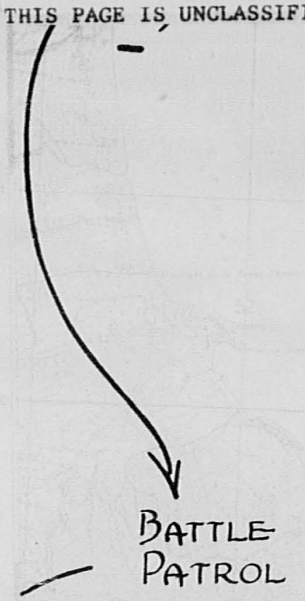
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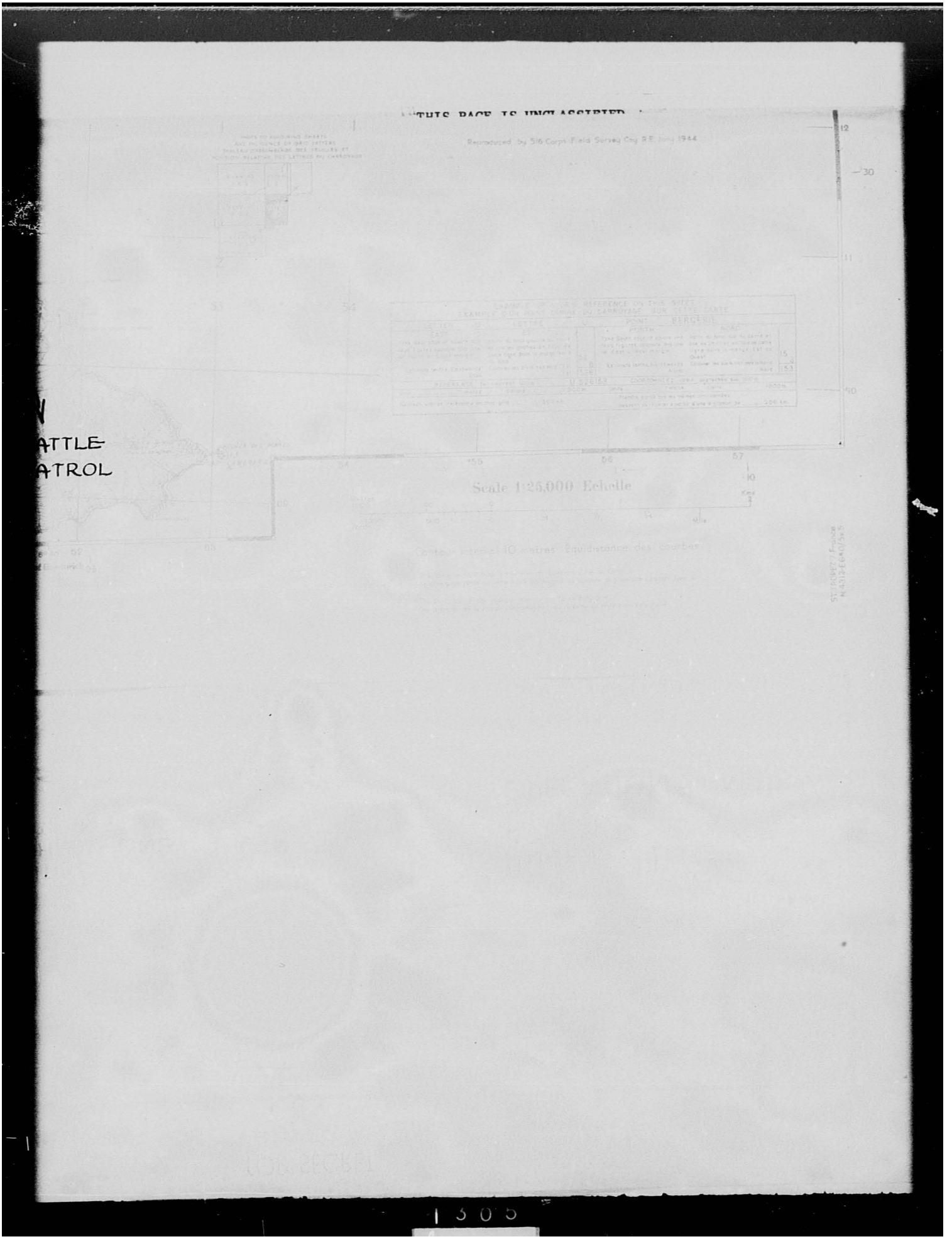
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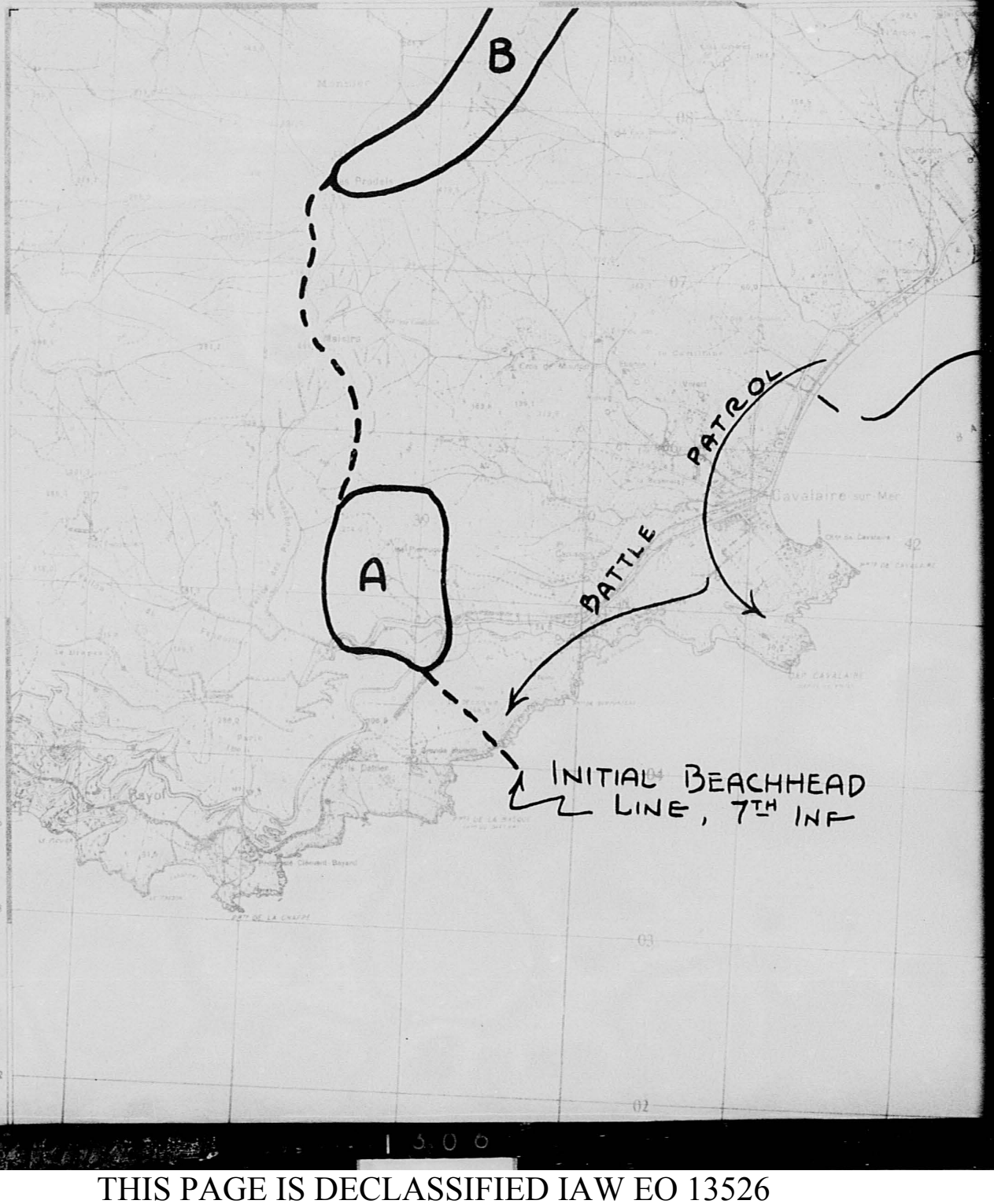
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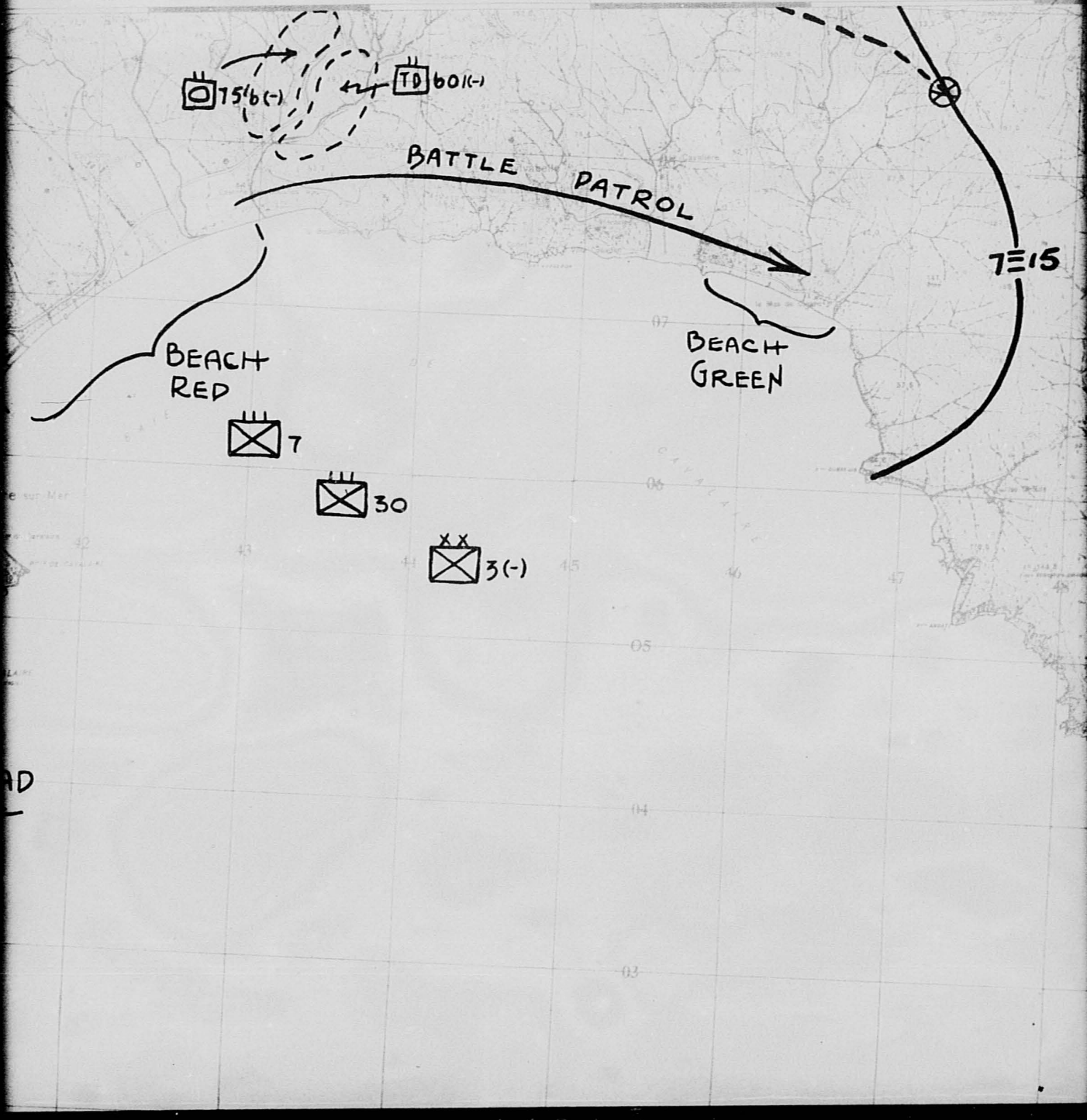


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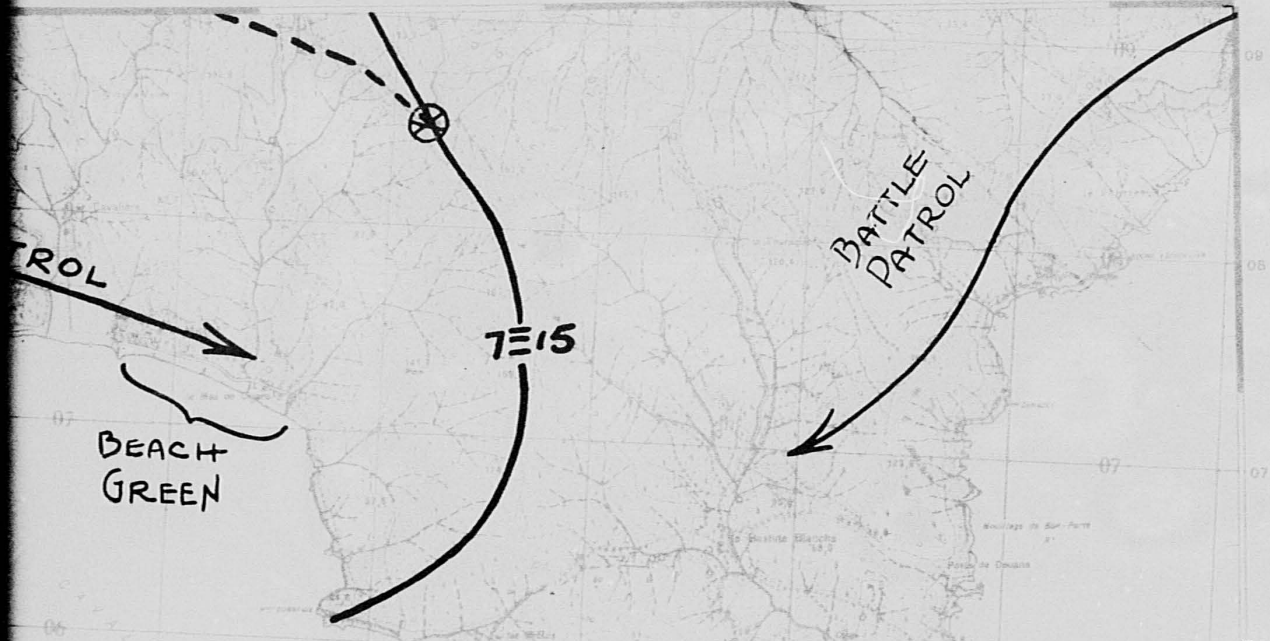
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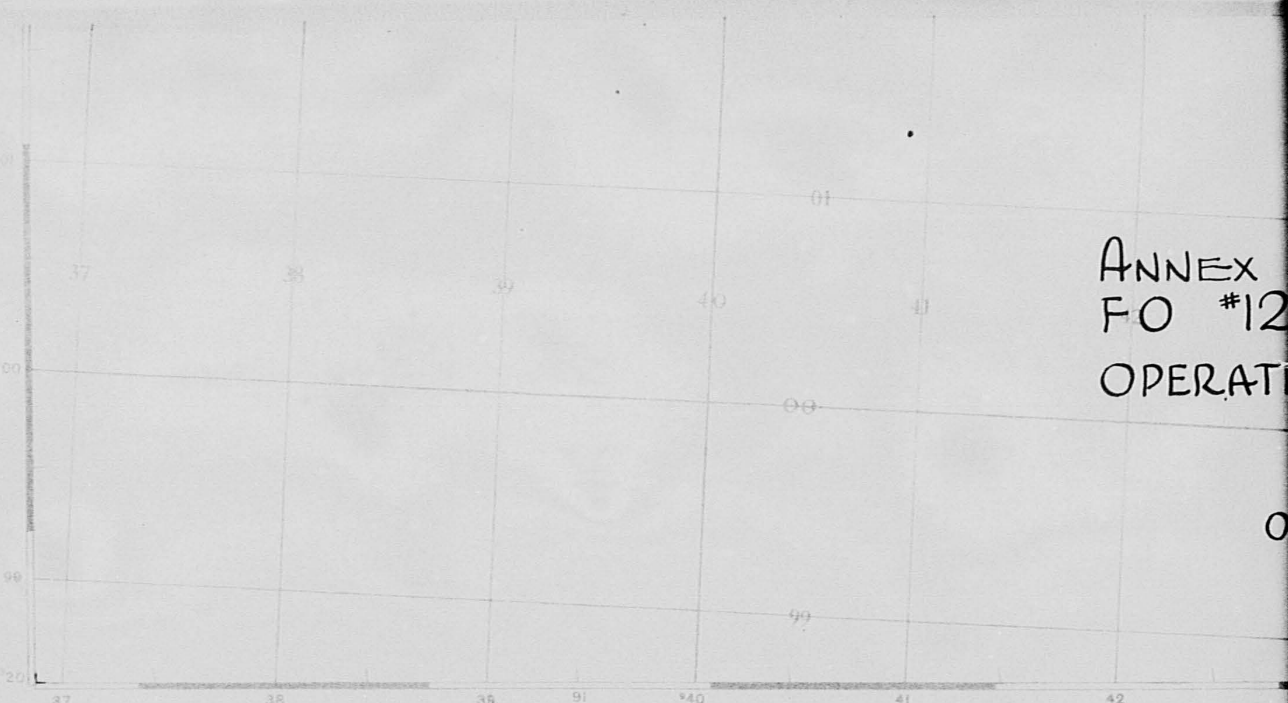
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ANNEX #1
FO #12
OPERATIONS MAP

HQS. 3RD INF. DIV.
NAPLES, ITALY
AUGUST 1ST, 1944

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CMDG

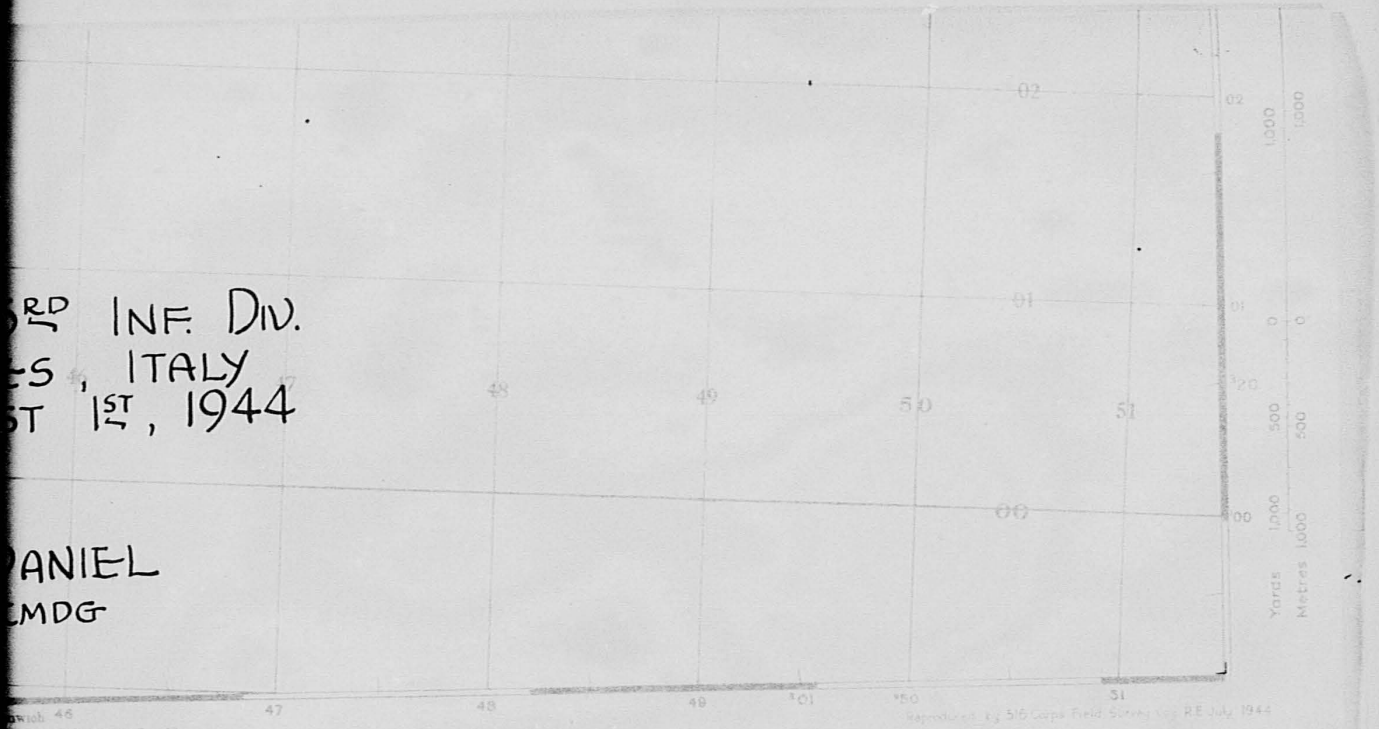
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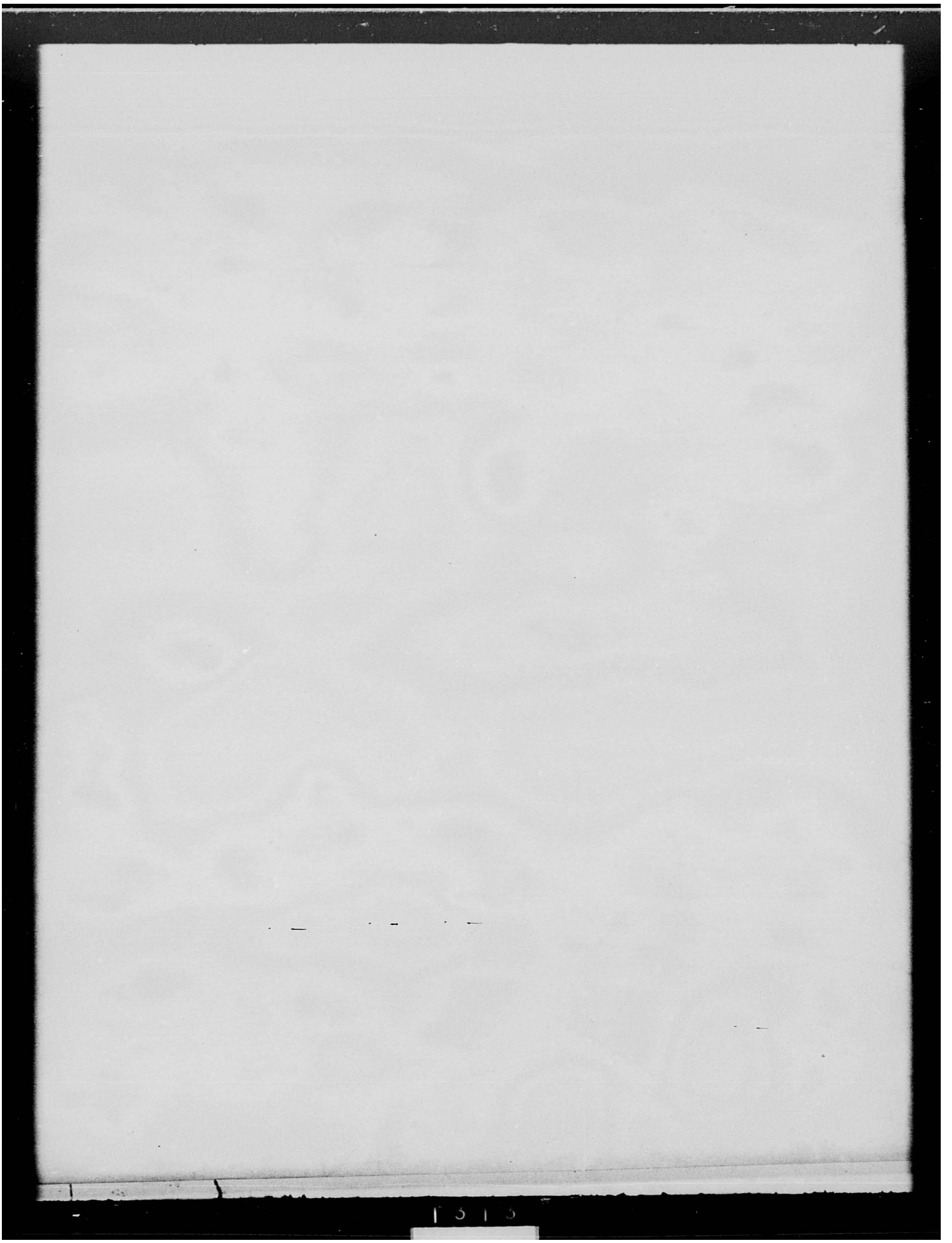
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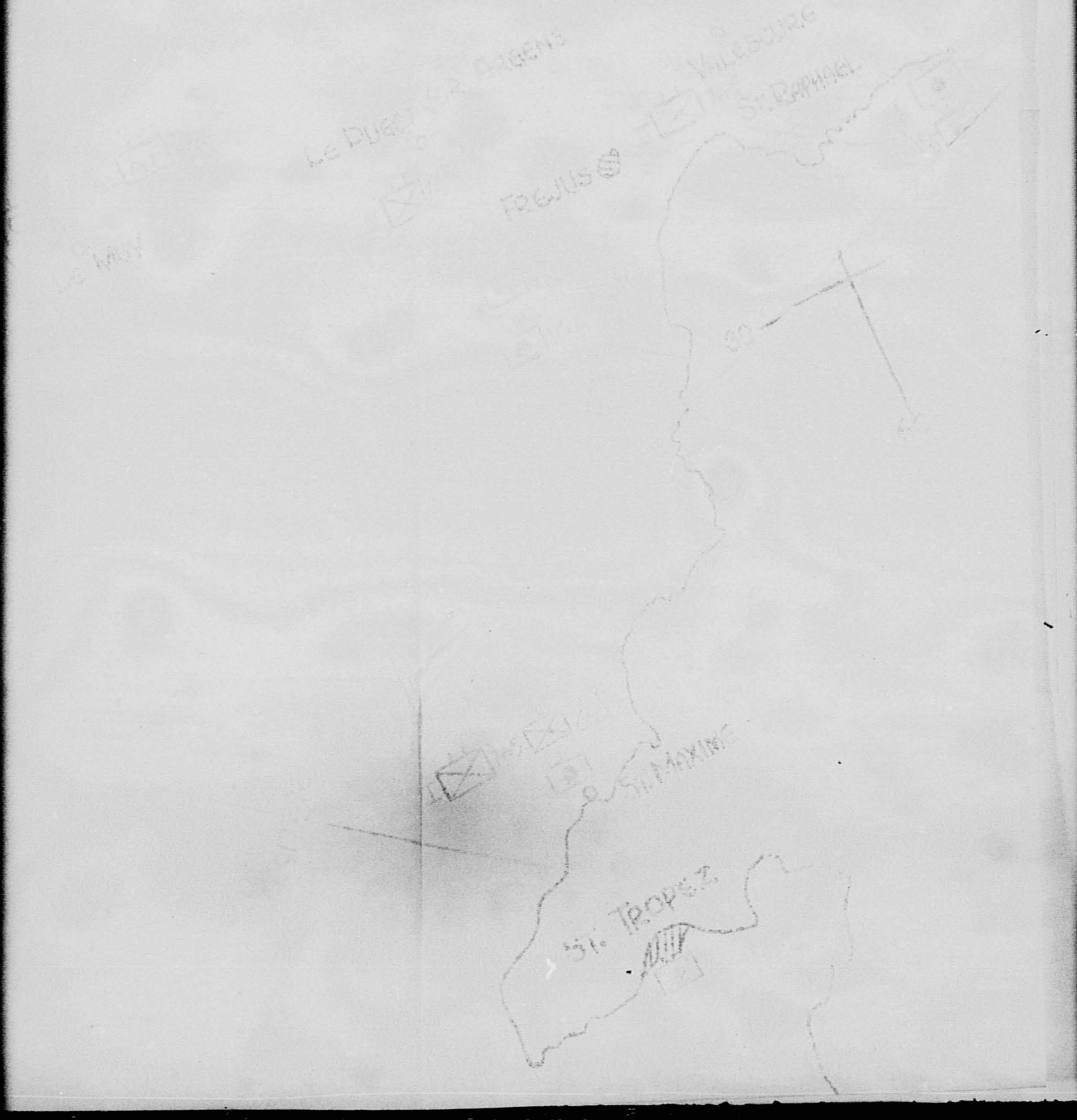
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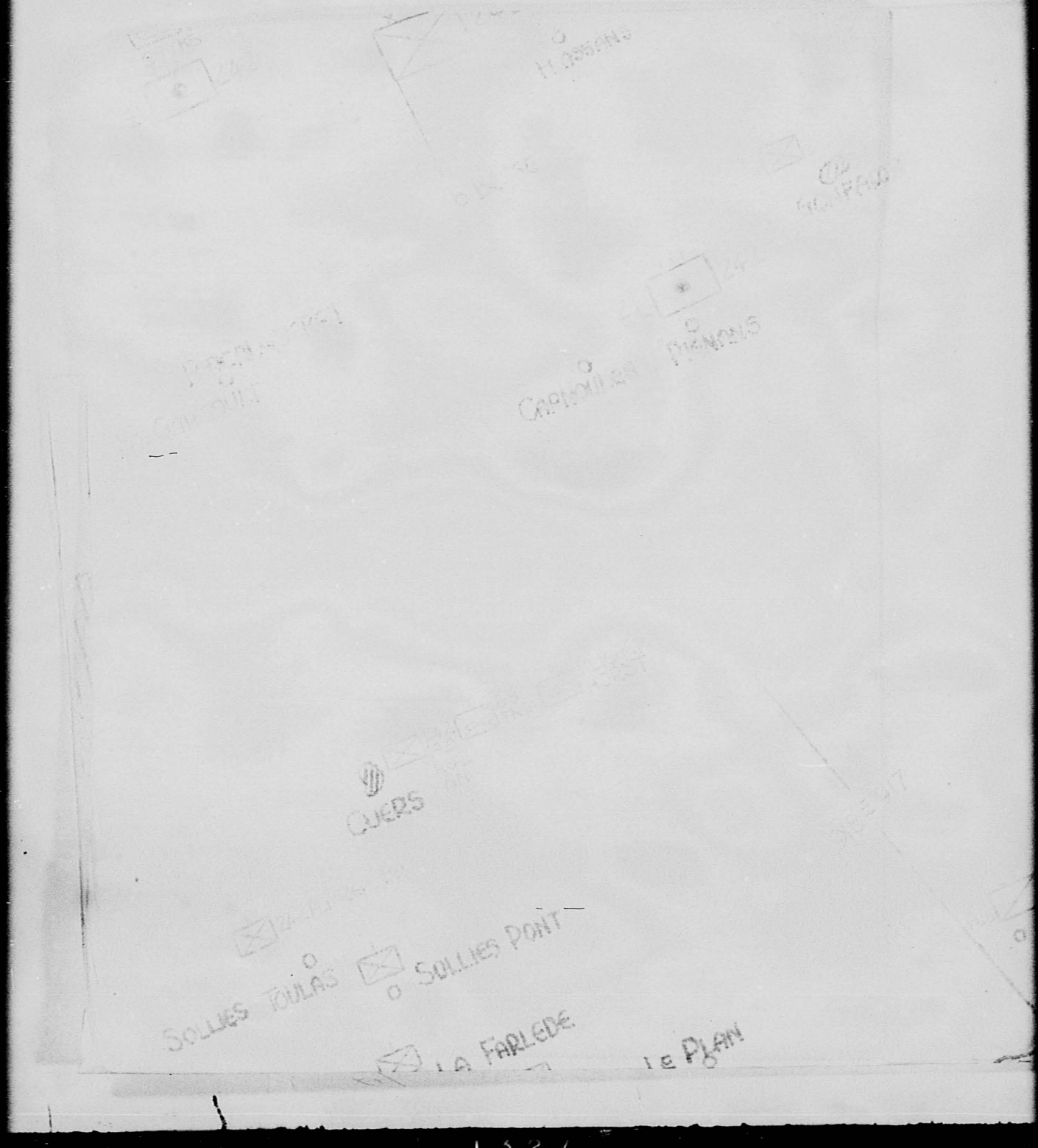
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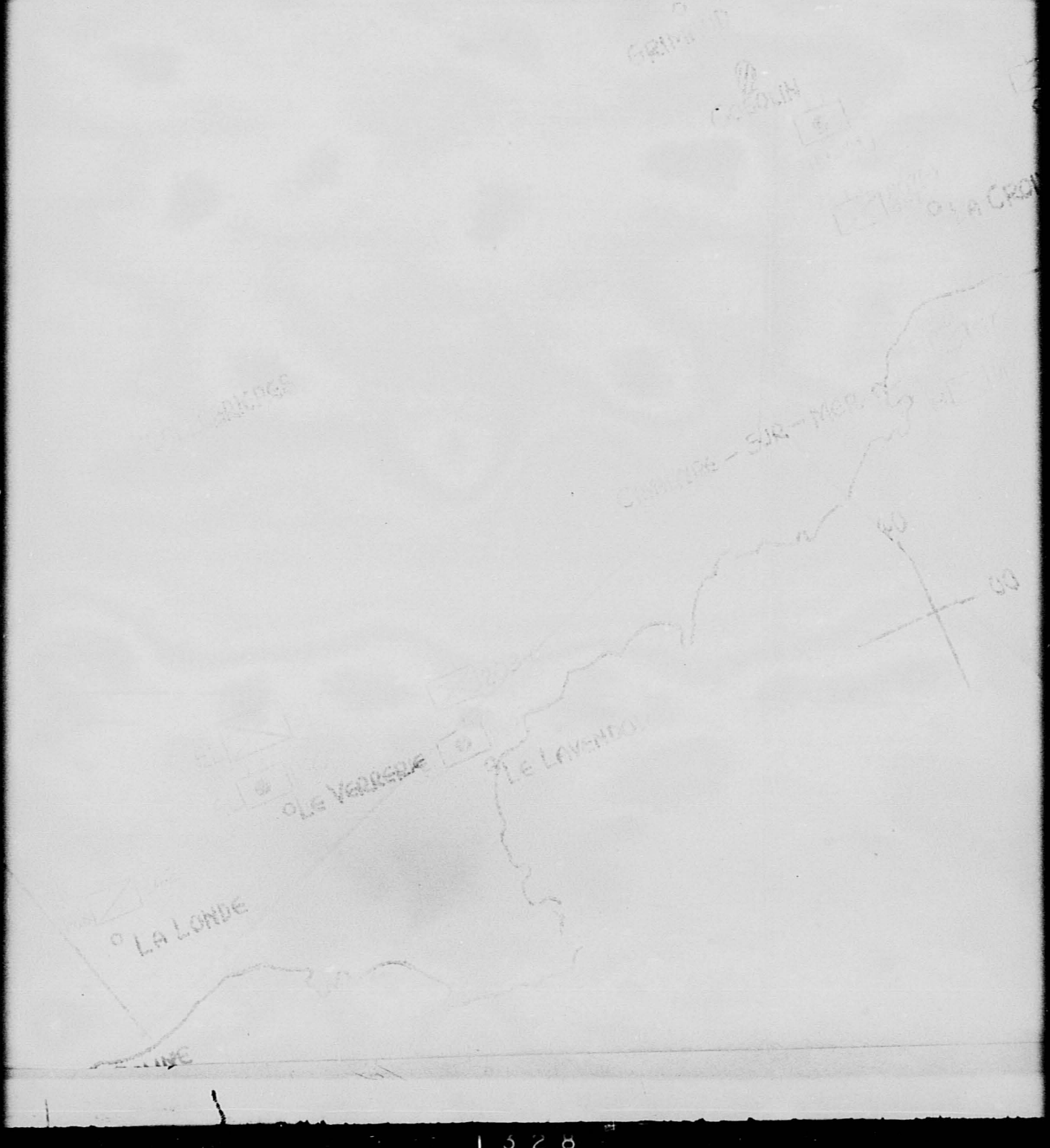
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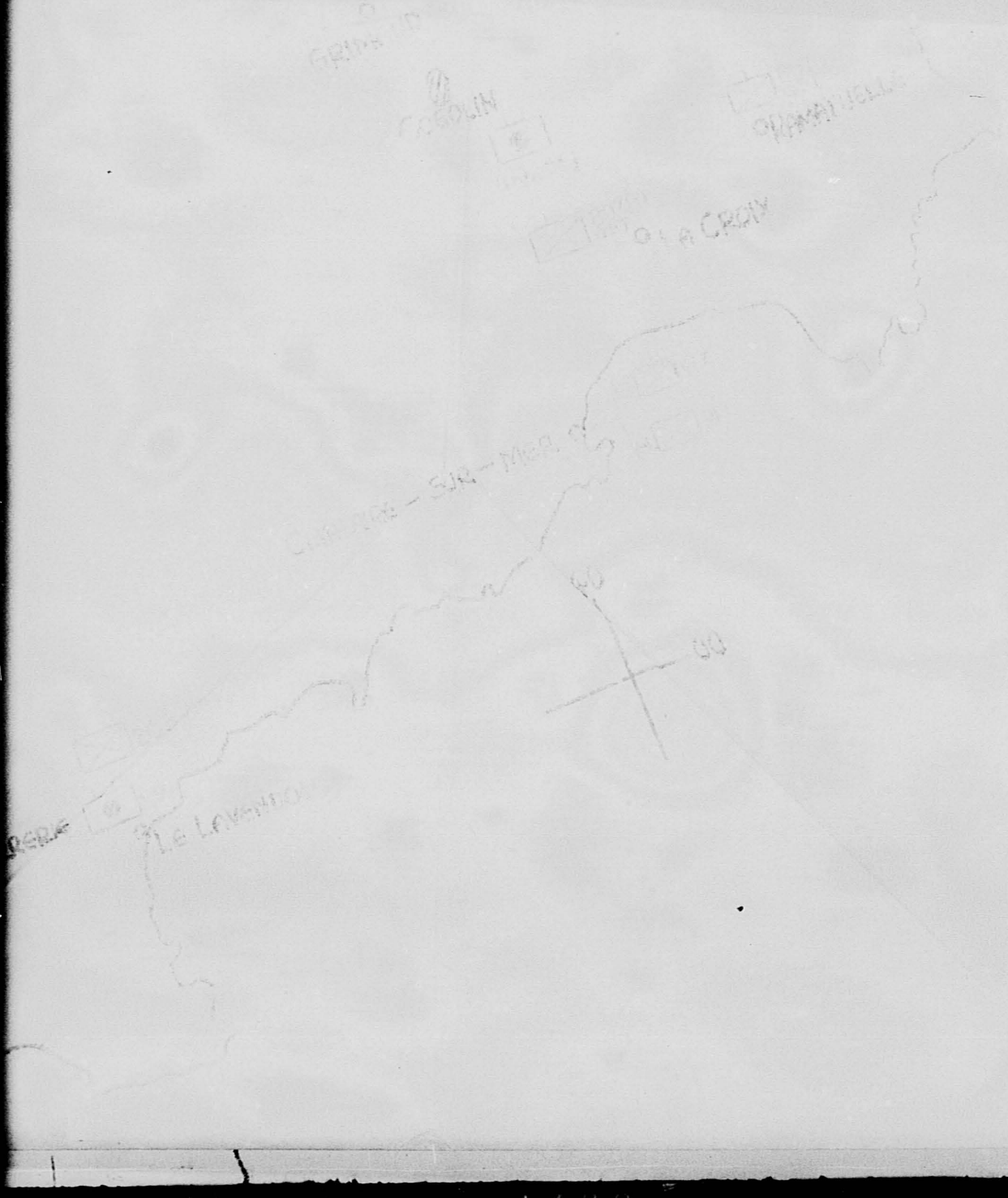
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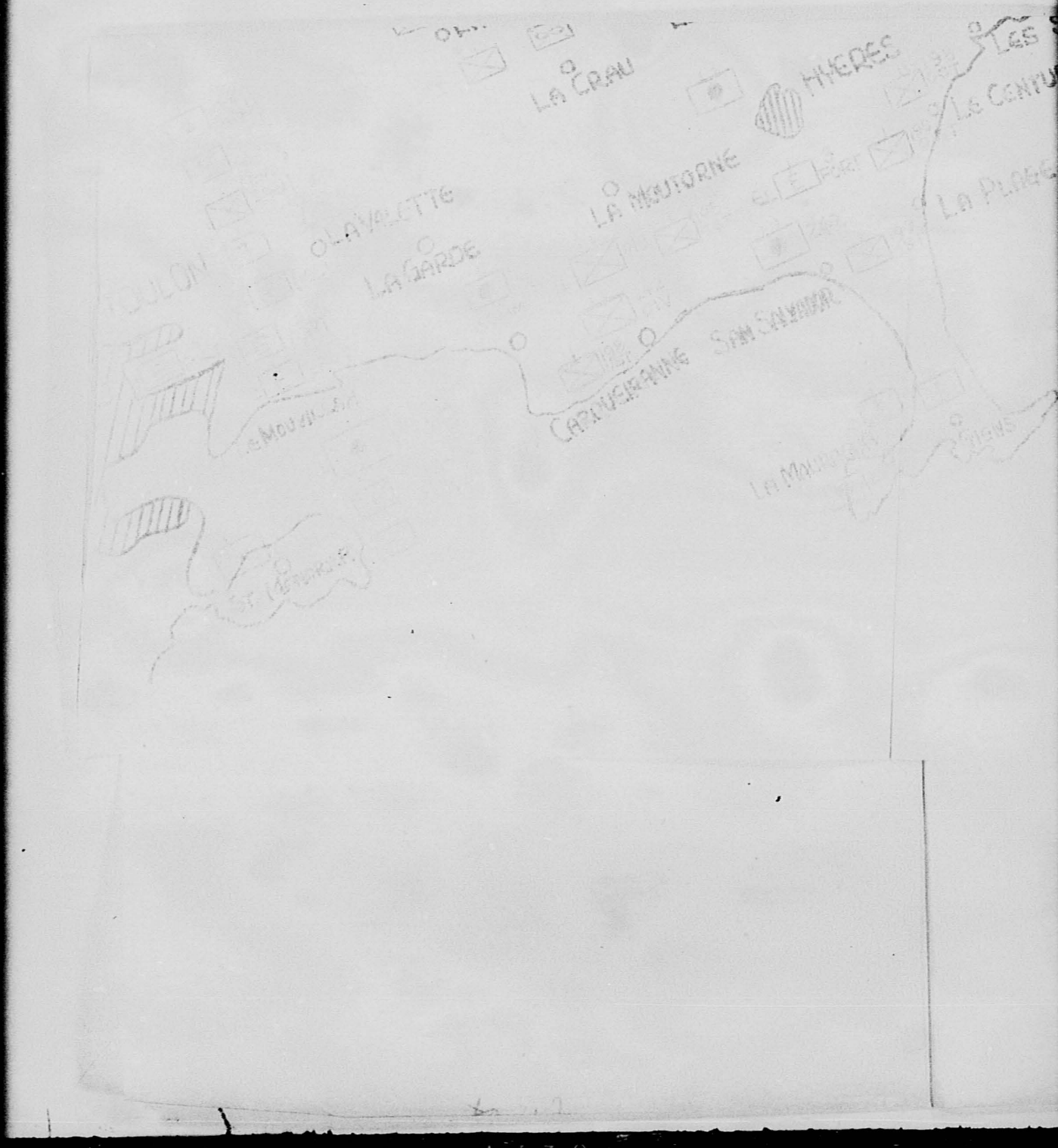
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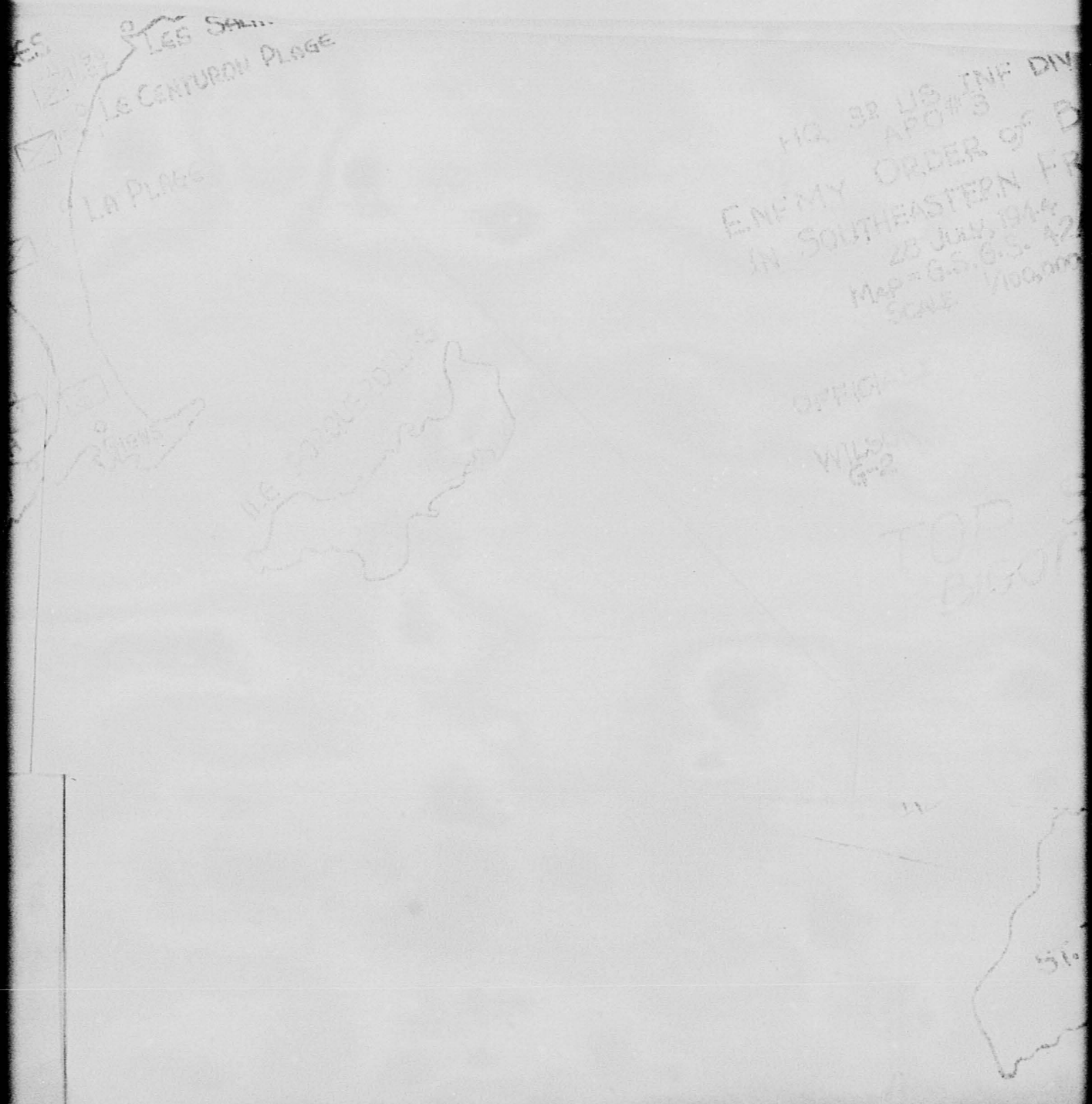
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HQ 36 US INF DIV
APO #3

ENEMY ORDER OF BATTLE
IN SOUTHEASTERN FRANCE
28 JULY, 1944
MAP-G-2, G.S. 4249
SCALE 1/1000,000

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HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

25 July 1944

ANNEX No. 2 to FO No. 12

INTELLIGENCE

OPERATION ANVIL

APPENDICES

Appendix No. 1	G-2 Estimate
Appendix No. 2	Terrain Study
Appendix No. 3	Beach Study
Appendix No. 4	Miscellaneous Intelligence Political, Economic, Medical, Weather, Almanac
Appendix No. 5	Interrogation of PW's and Examination of Captured Documents and Enemy Materiel

FIXED DEFENSES, COLLATION MAPS, GOING MAP, AND TERRAIN MAP TO BE ISSUED.

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TOP SECRET BIGOT-ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

TOP SECRET
Auth: CG, 3rd Inf Div:
Init: GWC
Date: 25 July 1944

Annex No 2
to
Field Order No 12
Operation Anvil

INTELLIGENCE ANNEX

Maps: See Paragraph 5

1. SUMMARY OF ENEMY SITUATION

See Appendix 1, G-2 Estimate.

2. ESSENTIAL ELEMENTS OF INFORMATION

a. Will the enemy initiate action against our assault force while it is en route? If so, when and where and in what strength? Will the action be surface, submarine or air action, mines?

b. Will the enemy initiate action against our assault force while it is in the assembly area? If so, in what strength? Will the action be surface, submarine, or air action, mines, artillery fire from the mainland and near-by islands?

c. Will the enemy have constructed underwater obstacles and have laid off-shore minefields to impede the landing of our forces? If so, where are they located and what is their nature and extent?

d. Will the enemy have erected obstacles, executed demolitions and laid mine fields on the beaches and in the immediate hinterland? If so, where are they located and what is their nature and extent?

e. Will the enemy have organized the beach and hinterland for defence? If so, what is his plan of defence and where are his positions located? What is their nature and extent?

f. What are the enemy forces available for defence of the threatened area and where are they disposed? Identification, strength, equipment, armor?

g. What reserves are available to the enemy and where are they located? Identification, strength, equipment, armor, transportation? What time after H-hour can the enemy commit his reserve against us? From what direction will they come and over what routes will they travel?

h. Will the enemy resist our landing from prepared positions on the beaches and immediate hinterland? If so, what is the nature of his defences, where are his positions located, and in what strength does he defend?

i. Will the enemy defend the beaches and immediate hinterland thinly with small coastal defence formations and counterattack with a reserve force when he thinks he has correctly evaluated our effort? If so, what will be the time, direction, and strength of the counterattack? Will he employ armor in the counterattack?

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j. Will the enemy defend the beaches thinly and fight a delaying action, falling back on a previously prepared position before TOULON, and establish a line on terrain more favorable to the defense? If so, where will he establish this line and what will be the nature and extent of his positions?

k. Will the landing of our forces in Southern France affect the Italian, Balkan, or Northern French situation so as to cause the enemy to take action against our forces from any of these directions? If so, what will be the nature and strength of the action?

l. What is the nature, strength, and dispositions of enemy dual-purpose AAA defense?

m. What will be the weather conditions on D-day and following?

n. What pro-Allied French organized groups will be in the area of attack and how effective will their assistance be?

3. RECONNAISSANCE AND OBSERVATION MISSIONS

a. VI Corps

(1) Request daily Air Reconnaissance be furnished area CAVALAIRE-SUR-MER 410055 - TOULON 9198 - MARSEILLE 4817 - AIX-en-PROVENCE 5141 - LE LUC 920295 - GRIMAUD 4107.

(a) Visual mission to include rail and road net in above listed area both day and night for movement of reserves toward beachhead area.

(b) Photo missions to include daily cover of enemy front lines in 3d U.S. Infantry Division zone of advance -- detailed request to be made daily.

b. 3d Division Units

(1) 3rd Recon Troop -- Reconnoiter North on highway 559, seize and hold RJ at 441159 until relieved by Troop C 117 Recon or 30th Infantry; thence West on highway 98 toward COGOLIN 407145 - LA MOLE 353093 and COLLOBRIERES 225120. Reconnoiter West to RJ at 355039, thence North to LA MOLE and West toward BORMES 258024. Establish division OP's as directed.

(2) Troop C 117 Recon Sqdn -- Reconnoiter North and West, seize and hold RJ at 441159 or if 3rd Recon Troop is established at that point, relieve 3rd Recon on road block and hold until relieved by 30th Infantry Push vigorous reconnaissance toward STE. MAXIME ~~210490~~ 480210 - PLAN DE LA TOUR 414242 - LA GARDE FREINET 350215, contact 45th Division on North flank. Reconnoiter West toward GRIMAUD 4107 and COLLOBRIERES 225120.

(3) 7th Infantry -- Vigorous reconnaissance to highway 98 within zone of advance, West to secondary road between LA MOLE 353093 to LE PAYOL 370036.

(4) 15th Infantry -- Vigorous reconnaissance to RAMATUELLE 473108 - BERTAUD CH 457158 - ST. TROPEZ 4917.

(5) 30th Infantry -- Upon occupation of initial objectives, reconnoiter vigorously direction LA GARDE FREINET 350215 and COLLOBRIERES 225120.

4. INTERROGATION OF PRISONERS OF WAR AND EXPLOITATION OF CAPTURED DOCUMENTS AND ENEMY MATERIAL.

a. Prisoners of War

(1) Prisoner of War Interrogation Teams

(a) The prisoner of war interrogation team will be German-speaking and will consist of one (1) officer and two (2) enlisted men.

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(b) IPW teams will be attached:

one (1) team to the 7th Inf
one (1) team to the 15th Inf
one (1) team to the 30th Inf
one (1) team to Division Headquarters

(c) Organizational equipment for each team will be supplied by higher headquarters. Requests to make up shortages should be coordinated by the O.C. Div IPW Team and forwarded to 2680th Hq Co., MIS, Allied Force.

(2) Operations

See Appendix 5 to Annex No 2 to FO No 12

b. Interrogation of Civilians

See Appendix 5 to Annex No. 2 to FO No 12

c. German Air-Corps Prisoners of War

(1) German Air Corps Flying Personnel will be interrogated by no one except Air Corps interrogators.

(2) Captured German Air Corps Personnel (Flying Personnel only) will be evacuated to the Div PW Cage immediately without interrogation at any level. Captured German Air Corps personnel will be reported to the A C of S, G-2, immediately. It is of paramount importance that their equipment, personal and government issue, be forwarded to the A C of S, G-2, immediately. No souvenirs are to be retained.

d. Prisoner of war reports will be submitted to the A C of S, G-2, daily at a time to be announced. Prisoner of war reports will contain a tabulation of PWs by unit, to include, number of PWs passing through cage during 24 hour period, place of capture of PWs, time of capture, and capturing unit.

e. Examination of Enemy Materiel

See Appendix 5 to Annex No 2 to FO No 12.

5. MAPS, PHOTOGRAPHS, AND MOSAICS

a. Distribution Plan

(1) The maps will initially be issued to the Division Engineer in bulk at the 661st Topographical Company at least twelve (12) days prior to date of final embarkation.

(2) Unit S-2's of Divisional and attached units will submit map distribution lists broken down into the smallest increments planned for type ship loadings and show increment identification markings.

(3) Map detachment from Division Engineers will be attached to the 661st Topo Co for the purpose of breaking down, packing and marking the maps in accordance with the aforementioned lists.

(4) All maps, including divisional reserve, will be packaged in sealed packages.

(5) The Seventh Army Map Identification Code symbols and the increment identification markings shown on the unit distribution lists will be placed by the Division Engineer Map Detachment on the outside of each sealed package.

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(6) The sealed packages of unit maps and the Seventh Army Identification Code and Key in sealed envelope will be issued at 661st Topo Co Bivouac, seventy-two (72) hours prior to final embarkation to unit S-2's.

(7) The unit S-2's will deliver their unit maps in the original sealed packages and Seventh Army Map Identification Code and key in sealed envelope to Commanding Officer of troops prior to sailing.

(8) The unit S-2's will be responsible for the prescribed security of unit maps and Seventh Army Identification Code and Key after issue to them and until delivery by them to Commanding Officer of Troops.

(9) The Commanding Officer of Troops shall be responsible for the prescribed security of unit maps and Seventh Army Identification Code and Key after issue to them until the prescribed time for distribution.

(10) The originally sealed packages and sealed envelopes will not be opened prior to dropping of pilot, or if no pilot, prior to four (4) hours after sailing.

b. Maps, Photographs and Mosaics Distribution.

See following four pages.

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		1/200,00 Road Map Sheet No. 84	1/100,000 Unlayered GSGS 4249 AMS M661 Sheets No. 15Q, 15R, 16Q	1/50,000 GSGS 4471 Sheets No. XXXIV -43,44,45,46 XXXV -43,44,45 XXXVI -43,44 XXXVII -43	1/25,000 GSGS 4411 Sheets No. XXXIV 43 1/2 3/4 5/6 7/8 " 44 " " " " " 45 " " " " " 46 " " " " XXXV 43 " " " " " 44 " " " " " 45 " " " " " 46 " XXXVI 43 " " " " " 44 " " " XXXVII 43 "	Beach Panorama	1/10,000 Annotated Beach Mosaic	Town Plan HYERES ST. TROPEZ, ST. MAXIME	Throughway Town Plan Volume 5	1/25,000 Collation XXXIV 46, 3/4 XXXV 45, 5/6,7 " 46, 1/2
536th AAA AW Bn (Mbl)	150	35	25	25	11	1	10	5	5
72nd AAA Gun Bn (Mbl)	150	35	25	25	11	1	10	5	5
104th AAA Bar Bn. (Mbl)	15	20	10	10	1	1	5	5	5
756th Tank Bn	215	35	35	35	4	4	10	5	5
601st TD Bn	270	35	35	35	4	4	10	5	5
3d Cml Bn (Mtz)	200	50	50	50	1	1	10	5	10
Det 6th Cml Dep Co	2	2	2	2					
Det 11th Cml Maint Co	2	2	2	2					
1 Bn 343rd Engr Gen Serv Regt	60	35	35	35	1	1	10	5	5
Det 603/7th Engr Mine Clr Co	20	10	10	10	0	0	5	2	1
10th Fd Hosp	20	10	10	10	0	0	1	1	0
Det 2nd Auz Surg Gp	5	3	3	3	0	0	1	1	0
95th Evac Hosp	45	10	10	10	0	0	1	1	0
43rd Ord Bn Hq & Hq Det	0	5	5	5	0	0	1	1	0
14th Ord M Maint Co	45	10	10	10	0	0	1	1	0
343rd Ord M Auto Maint Co	40	10	10	10	0	0	1	1	0
64th Ord Am Co	25	10	10	10	0	0	1	1	0
143d Ord Bomb Disp Sqd	5	2	2	2	0	0	1	1	0
Det 261st Ord M Maint Co (AA)		5	5	5	0	0	1	1	0
Det 87th Ord HM TK Co		5	5	5	0	0	1	1	0
Det 77th Ord Dep Co		5	5	5	0	0	1	1	0
69th Ord Am Co	21	10	10	10	0	0	1	1	0
3407th Ord M Auto Mt Co (DUK)	40	10	10	10	0	0	1	1	0
Det 163rd Sig Photo Co	2	2	2	2					
Det Stam Sig Men Co	2	2	2	2					
Naval Combat Int Team									
Replacement Co									

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		1/200,000 Road Map Sheet No. 84	1/100,000 Unlayered GSGS 4249 AMS M661 Sheets No. 15Q, 15R, 16Q	1/50,000 GSGS 4471 Sheets No. XXXIV -43,44,45,46 XXXV -43,44,45 XXXVI -43,44 XXXVII -43	1/25,000 GSGS 4411 Sheets No. XXXIV 43 1/2 3/4 5/6 7/8 " 44 " " " " " 45 " " " " " 46 " " " " XXXV 43 " " " " " 44 " " " " " 45 " " " " " 46 " XXXVI 43 " " " " " 44 " " " XXXVII 43 "	25	Beach Panorama	25	1/10,000 Annotated Beach Mosaic	25	Town Plan MIRES ST. TROPEZ, ST. MAXIME	10	Throughway Town Plan Volume 5	25	1/25,000 Collation XXXIV 46, 3/4 XXXV 45, 5/6,7 " 46, 1/2
36th Engr C Regt	415														
1st Naval Beach Bn	70														
72nd Sig Co Spec	30		30	30	30	1	1	1	1	2	10				
52nd Hq & Hq Det Med Bn	15		10	10	10	0	0	1	1	1	10				
376th Med Coll Co	15		5	5	5	0	0	1	1	1	0				
377th Med Coll Co	20		10	10	10	0	0	1	1	1	0				
378th Med Coll Co	20		10	10	10	0	0	1	1	1	0				
1st Plat & Hq Det 616 Clr Co	15		10	10	10	0	0	1	1	1	0				
668th Med Clr Co	20		10	10	10	0	0	1	1	1	0				
Det Boat GCs	10		10	10	10	0	0	1	1	1	0				
815th MP Co	4		2	2	2										
Plat 2nd Chl Decon Co	4		2	2	2										
1st Trk Chl Dep Co	4		2	2	2										
3rd Plat 440th Engr Dep Co	4		2	2	2										
Hq & Hq Det 255th QM Bn	1		5	5	5	0	0	1	1	1	0				
345th QM Trk Co	55		10	10	10	0	0	1	1	1	0				
346th QM Trk Co	55		10	10	10	0	0	1	1	1	0				
Det 669th Regulating Co	10		5	5	5	0	0	1	1	1	0				
Hq & Hq Det 520th QM Bn (Mbl)	10		5	5	5	0	0	1	1	1	0				
3333rd QM Trk Co (DUK)	55		10	10	10	0	0	1	1	1	0				
3334th QM Trk Co (DUK)	55		10	10	10	0	0	1	1	1	0				
3335th QM Trk Co (DUK)	55		10	10	10	0	0	1	1	1	0				
3336th QM Trk Co (DUK)	55		10	10	10	0	0	1	1	1	0				
1 Sec 3880th QM Gas Sup Co	4		2	2	2										
1 Sec 377th Fw Rect Cl Co (None)															
Det 207th Sig Dep Co	4	2		2	2										

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c. Correction of Maps:

Errors in existing maps will be reported to the division engineer who will be responsible for transmitting the information to higher engineer echelons.

d. Captured Maps:

Captured maps will not be used except for intelligence purposes. Marked captured maps will be retained at lower levels only long enough to extract pertinent tactical information and will then be forwarded to the Document Section at Division PW Cage by the quickest possible means. Enemy maps, when found in bulk, will be reported to the A C of S, G-2, and the Division Engineer, with a report as to type and quantity.

6. PUBLIC RELATIONS

a. Personnel

(1) Public relations personnel, correspondents, and necessary transportation will be attached to the division as follows:

Personnel	Vehicles
8	3

Assignment to regiments to be announced later.

b. Communications

(1) Tactical electrical transmission facilities below Corps Hq are not available for dispatch of press copy.

(2) All scheduled courier and messenger services are available for dispatch of press copy, films, recordings, etc. Priority will always be given to tactical needs.

(3) Press material for dispatch by courier and messenger will be properly marked and addressed and delivered to message centers by unit Public Relation officers or their authorized representatives.

(4) Radio communication available for dispatch of press copy will be published later.

c. Pooling

All news copy, radio material and photographs will be pooled for an indefinite period. The Public Relations officer attached to VI Corps Hq may at any time revoke pooling in whole or part.

d. Censorship

(1) No press copy will be sent by electrical transmission without prior censorship or without prior censorship marking. It will be transmitted in the clear.

(2) Field press censors will be assigned to Corps Hq to censor press copy before its transmission by electrical means.

(3) Copy may be sent by sea, air, or road from the operational area to designated bases in rear without prior censorship, subject to control of A C of S, G-2, VI Corps.

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e. Control of Correspondents

(1) All correspondents assigned to participate in the operation come under the initial control of A C of S, G-2 VI Corps.

(2) In order to facilitate coverage of stories, correspondents are authorized to work within the entire area, as coordinated initially by the A C of S, G-2, VI Corps.

f. Accomodations

(1) Public Relations personnel and correspondents are authorized to billet and mess with the units to which they are attached for the operation.

g. Transportation

(1) Correspondents may be transported in vehicles of organizations to which they are attached, providing transportation is so authorized by unit commanders concerned.

7. COUNTERINTELLIGENCE

A. Counterespionage and counters abotage

(1) Policy

(a) Counterintelligence and security measures will be effected immediately after the landing. The diplomatic immunity of neutral consuls and neutral government officials and their correspondence will be respected as far as possible.

(2) Enemy Agents

(a) Enemy agents and sympathisers will be captured as soon as possible and will be handled as prisoners of war. Their headquarters, offices and homes, will be thoroughly searched and all documents, codes, ciphers, and wireless equipment will be turned over to CIC personnel.

(b) Sm/SA/CIC personnel may apply to A C of S, G-2, for combat assistance necessary to effect capture of known enemy agents and sympathisers or to block their routes of escape.

b. Port Security

(1) The commander of any unit capturing a port will take the necessary steps to establish port security, including prevention of espionage, sabotage, and other damaging subversive activity.

(2) Sm/SA/CIC personnel will cooperate with Naval Intelligence personnel in matters of naval interest.

c. Counter Intelligence Agencies

(1) The following detachments of French Securite Militaire and Surete aux Armees, military intelligence personnel, will be attached to the Third Infantry Division:

Securite Militaire	1 Officer	1 EM (driver)
Surete aux Armees	2 Officers	

(2) The above listed personnel will be under the command of the senior CIC officer attached to this headquarters.

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(3) Counterintelligence personnel, when on assigned missions, may move about freely at any time of day or night without being hindered by military police and other military agencies.

(4) As agents of the Commanding General, full power of arrest is vested in the personnel of the Counterintelligence Corps, Securite Militaire and Surete aux Armees.

d. Security

(1) Troops will be reminded to observe the requirement to give only name, rank, and serial number if captured and to refrain from giving information of any kind which may be transmitted to the enemy by listening devices or enemy agents disguised as Allied soldiers. . . .

(2) Orders and documents will not be carried forward of the next lower echelon. A minimum of essential documents will be taken ashore. All others will be destroyed prior to embarkation or debarkation.

(3) Loss, capture or compromise of classified documents, codes, and ciphers, will be reported immediately to A C of S, G-2, 3rd Division.

(4) Diaries and personal letters will not be carried on the person in forward areas.

e. Civilian Control

(1) All civilians found attempting to cross our lines will be treated as civil prisoners and espionage suspects until their innocence has been established.

(2) The Civil Affairs Officer, Seventh Army, is responsible for control of civilian circulation passes. Civilians will be handled within the 3rd Division zone of advance in accordance with policies laid down by A C of S, G-1, in Appendix 7 to Annex 4.

(3) Circulation passes will be issued for not more than 30 day periods and will bear the name, address, description of individuals and an expiration date.

(4) Blanket passes made out to "The Bearer" and effective for an unlimited period will be confiscated whenever found and the bearer turned over to the Military Police.

f. Censorship

(1) Press — See paragraph 7 Public Relations.

(2) Mail — No change. See Annex A to Natousa Circular # 32, 13 March 1944. Cf letter this Hq issued 14 July 1944 with inclosure.

(3) Civilian

All known radio stations, telephone exchanges, telephone and cable transmitting stations, post offices, offices of prefectures, civil administrative offices, main police stations, Chiefs of Police, and newspapers, will be seized and all business and correspondence thereat willbe temporarily stopped. Security personnel will be notified as soon as possible in order that all files may be examined.

g. Reports

Daily CIC reports will be made to A C of S, G-2, Third Division, covering the following:

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(1) Subversion

(2) Sabotage

(3) Espionage

(4) Propaganda

(5) Civilian attitude

8. PASSWORDS

a. Paroles and countersigns will be issued by the Division AG. Initial date to be announced.

b. To prevent compromise, dissemination dates will follow this schedule:

(1) Companies: day by day on effective date.

(2) Battalions: in groups of two days, prior to effective date.

(3) Regiments: in groups of three days, prior to effective date.

9. REPORTS

a. To A C of S, G-2

(1) Regimental S-2's will make reports, telephonic or otherwise, of enemy information to the A C of S, G-2, thrice daily, at 0500B, 1100B, and 1700B.

(2) A complete S-2 Periodic Report as of 2400B for the preceding 24 hours will be submitted daily to the A C of S, G-2, by 1000B. Overlays will accompany report when practicable.

(3) Spot reports will be rendered A C of S, G-2, as available.

b. Reports from A C of S, G-2

(1) G-2 Periodic Report covering the preceding 24 hour period will be issued daily as of 2400B.

By Command of Major General O'DANIEL.

CHARLES E. JOHNSON
Colonel, G.S.C.
Chief of Staff.

OFFICIAL: Grover Wilson

GROVER WILSON
Lt. Col., G.S.C.
A C of S, G-2

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T O P S E C R E T BIGOT - ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

Appendix No 1
to
Annex No 2
to
Field Order No 12

28 July 1944

G-2 ESTIMATE AND ENEMY ORDER OF BATTLE

1. MISSION

To land assault forces on beaches Red and Yellow, clear them of enemy resistance, capture ST. TROPEZ, GRIMAUD, and GOGOLIN, and clear ST. TROPEZ peninsula with all possible speed.

2. SUMMARY OF THE SITUATION

a. Analysis of German Forces in Southern FRANCE

(1) General: In the area of southern FRANCE (South of the LOIRE RIVER) there are believed to be thirteen identified divisions at present writing. Of these nine are classified as limited employment divisions and four as offensive or field divisions. The group of nine limited employment units consists of four infantry divisions and five reserve divisions. The four offensive divisions include two panzer formations and two newly arrived infantry divisions which are reportedly in a depleted state. In addition, the 341st Assault Gun Brigade, consisting of an estimated thirty assault guns, is located in the NARBONNE area.

(2) Armor: In addition to the divisional armor there is estimated to be about 14 GHQ tank battalions in FRANCE and the LOW COUNTRIES. It is reasonable to assume that at least three of these will be found in the garrison of southern FRANCE. As yet, none has been specifically identified in this area. With the divisional armor and GHQ tank units combined, it is estimated that the enemy has approximately 2500 tanks in FRANCE and the LOW COUNTRIES.

(3) Non-divisional Units: The 30th Mobile Brigade, controlling the 509, 518, 519, 520 Mobile Battalions, previously reported to be located in the MARSEILLE area, has now been identified in COUTANCES, and indications are that all the battalions of this formation are now in northern FRANCE. The 518 Mobile Battalion has been identified in the CHERBOURG area. The 95th Sicherungs Regiment, located in the MONTPELLIER area, reportedly controls four battalions which operate on a roving basis. In addition, there is an unestimated number of GHQ artillery units, coastal battalions, and policing units.

(4) Foreign Troops: About 16 Ost (Russian) Battalions have been located in various parts of southern FRANCE. There have also been identified several battalions of Tartars, Armenians, Hindus, Turcomans, and Czechs. Some foreigners, notably the Ukrainians, have been organized under the supervision of the SS and now perform police duties in the area.

In addition to the above named, there are many units of the Fascist Republican Army reported in the area. It is reasonable to assume that they are used in coastal defense duties and for the manning of AA pieces. In the GRASSE area which is occupied by the 148 Reserve Division, there is reported to be large formations of Italian troops.

(5) Combat Effectiveness: The combat efficiency of the limited employment divisions in the area is decreased because of the apparent deficiency in heavy armament, the general deficiency of both horse and motor transport, with a consequent lack of mobility, plus the possibility that a greater number of older model weapons will be found in this type unit. The increasing percentage of "Volksdeutsche" found in units of this type, and the comparative inexperience of its personnel also makes for decreased combat efficiency. However, the fact that many troops are young and fresh (with consequent lack of the war weariness which has caused a fair number of desertions on active fronts) and the fact that lately the Germans have been retraining a number of seasoned troops returned from

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active fronts, convalescents, and physically fit "comb outs" from miscellaneous service units, must be considered.

The offensive divisions will probably be of a fairly high calibre, due to an increase in equipment plus the fact that veterans from previous campaigns consitute more than a mere backbone of the unit.

The supply of ammunition initially allocated to the limited employment divisions will probably be higher than in the field or combat divisions, owing mainly to transport deficiencies, but for the same reason it will probably be more difficult to replenish in the course of prolonged fighting.

(6) Trend Since the Invasion: The enemy's immediate reaction to the landings in NORMANDY was to reinforce the six divisions already stationed in the beachhead area with others, drawn chiefly from the general area of northwestern FRANCE and BELGIUM. By D plus 36, additional divisions had been withdrawn from BRITTANY, southwestern FRANCE, and RUSSIA, bringing to thirty the number of divisions identified on the beachhead, with several others en route to the area.

At present writing changes in the enemy dispositions on the NORMANDY front indicate that the enemy has abandoned his hope of breaking up the Allied bridgehead with the powerful concentration of armor in the CAEN - CAREMTAN sector and that his main preoccupation now is to put a maximum brake on the Allied advance. To this end the holding operation west of CAEN has been entrusted increasingly to infantry units while the panzer divisions available are being distributed more evenly over the entire area. This is borne out by the identifications of four Infantry and one Para Division recently withdrawn from the garrison of southern FRANCE, and of the 16 GAF Division recently moved to the area from DENMARK, in sectors previously occupied by armored divisions. In addition, the 11 Panzer Division which reportedly had left its area for the beachhead, has once again been identified in its old area East of BORDEAUX.

Paragraph (1) presents a picture of German divisions believed to be in southern FRANCE at the present time. During the last three week period, the forces in this garrison have undergone many changes, in that five offensive type divisions have left, all of which have been identified in the NORMANDY beachhead area.

b. Air Force Dispositions.

The following aircraft are currently based in the Western Mediterranean area, within striking distance of the ANVIL area:

Long Range Bombers	150
Bomber/Reconnaissance	30
Single Engine Fighters and Fighter/Bombers	100
Total	280

The current enemy air situation is in a very fluid condition, and the figures given above can only be considered to hold good for a very limited period of time.

c. Naval Forces.

(1) There are no major units considered active in the Western Mediterranean.

(2) The minor units considered active are in the following classes: Destroyers, Torpedo Boats, Escort Vessels or Corvettes, MAS boats, 110 ft and 60 ft S & R Boats, and submarines. In addition, there are about 25 - 30 converted yachts and trawlers, part of the 22 UJ Flotilla, which are used for anti-submarine patrol and as escort for short haul coastal convoys.

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(3) The following minor units are considered active in the Western Mediterranean:

Destroyers	Torpedo Boats	Escort Vessels	*MAS Boats	*S&R Boats	Submarines
1	7	12	18-20	12-20	10

* MAS Boats: Similar to German E boats and our own PT boats, but possessing a lower silhouette, better armor and being more quiet in operation. Italian built, the MAS boats were sub-chasers for the Royal Italian Navy.

* S-Boats: Converted trawlers. Slow motor torpedo boats used chiefly in the Mediterranean for coastal convoys.

* R Boats: Converted motor mine sweepers.

Note: AFHQ Summary No 98 reports that during a daylight attack on the port of TOULON, there were eight 500-ton U-boats present in the harbor, and that photographic reconnaissance following the raid showed that probably five had been damaged by blast or near misses.

d. Italian Theater. Since the launching of the Italian offensive in mid-May the enemy is believed to have lost about 14 divisions, leaving him with the equivalent of 12 divisions in the Italian theater. Meanwhile reinforcements equivalent to two divisions have recently arrived in northern ITALY, although it is doubtful whether or not this will be followed by any extensive refitting. It has been reported that another division may be on its way to ITALY. If so, this would increase the enemy's forces in the Italian theater to the equivalent of 15 divisions which is regarded as barely adequate to hold the CARRARA-PESARO line. Thus the enemy would be in no position to shift any forces from ITALY to south-eastern FRANCE unless he should decide to withdraw to the ALPS in which case he may be able to shift one or more of his Italian divisions to southern FRANCE.

e. Attitude of Civilian Population. There is every reason to anticipate a friendly civilian reaction to our assault. Since the occupation of FRANCE by the Germans, various resistance and direct action groups have sprung up, of which some are now known to be well organized. If properly coordinated, they may be counted upon to render immediate, extensive and effective assistance in harassing enemy communications, destroying his fuel and supply stores, and slowing up his troop movements. Especially important are the 70,000 to 100,000 MAQUIS, refugees from the German labor draft, who operate chiefly in the HAUTE SAVOIE but whose bands are scattered throughout the hills of southern FRANCE. The 157 Res Div has for some time been fully engaged with the MAQUIS but the growing unrest in the latter region has recently occasioned the reinforcement of this division with a regiment each from the 9 PZ Div and 338 Inf Div, indicating the increasing strength of this movement. There are believed to be about 10,000 Communists in the MARSEILLE and TOULON areas, organized into closely integrated small groups and specializing in individual acts of sabotage and terrorism. There are also varying numbers of organized de Gaullists sympathizers prepared to facilitate Allied military operations.

f. See attached enclosures for:

(1) German Order of Battle in France (two overlays)

(2) Fixed Defenses Overprinted Map

(3) Estimated buildup and movement chart

(4) German Order of Battle Charts

3. TERRAIN (See Appendix No 2)

4. BEACH STUDY (See Appendix No 3)

5. MISCELLANEOUS INTELLIGENCE (See Appendix No 4)

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6. ENEMY CAPABILITIES

a. To defend at the waterline from previously prepared positions.

b. To defend along the high ground LES PRADELS 383075 - LE PEINIER 405096 - LA CROIX 438098 - PAILLAIS M 465102 - PLATEAU PASCATI 486128 - RESTARGNE M 482149, falling back later to the high ground BOIS DE LA COLLE 335052 - TOUR LA VERNE 298114 - LA LOIRE 327135 - HAUTE-COURT 3219.

c. To counterattack with forces immediately available (see build-up chart) from direction:

(1) LE LUC 220295 - GRIMAUD 395168 - ST. TROPEZ 493170 Beachhead.

(2) TOULON 9098 - COLLOBRIERES 225120 - GRIMAUD 395168 Beachhead.

(3) Toulon 9098 - LE LAVENDOU 280013 - CAVALAIRE-SUR-MER 410057.

d. To contain the beachhead with forces available in SE FRANCE and N ITALY offering maximum delay to our buildup by ground, air, and naval attacks.

e. To delay, withdrawing toward prepared positions protecting the port of TOULON.

7. DISCUSSION

Any discussion of enemy capabilities at this time may be changed accordingly as the enemy redisposes his forces in southern FRANCE and northern ITALY prior to D-day. Subsequent estimates will be issued covering those changes.

Present enemy commitments on the Western front preclude any possibility of defending in strength all coastal areas or any major part thereof. He is thus forced to adopt the capability of defending lightly around the perimeter of his long coastal zone and depend on the use of mobile reserve units to counter any additional landings that the Allies might make.

Fixed defences in the CAVALAIRE-SUR-MER - ST. TROPEZ area consist of a rather shallow line of pill boxes and strongpoints located generally along and in rear of the likely landing spots. These defences are wired and mined with the customary German defensive methods. Offshore mines and underwater obstacles are known to exist.

It is questionable whether these defences are capable of doing more than delay landings while the alarm is being spread and an evaluation of the situation is being made. A determined defence in strength at the water's edge seems highly improbable.

The enemy's ability to withdraw troops committed on beach defences, marshal local reserves and move tactical or strategic reserves into the beachhead area is dependent on the speed of our attack, the effectiveness of our air and naval bombardment in delaying the movement of reserves to the beachhead area, and the degree of surprise effected.

Being unable to prevent a landing at the water's edge, he will unquestionably employ his well known tactics of counterattacking with whatever means at his disposal in an attempt to drive us back to the sea, or, failing in that, to establish a line on favorable terrain such as indicated in capability b.

Present disposition and commitments seem to preclude the probability of his being able to mass enough troops and artillery around the beachhead to prevent the successful accomplishment of our mission. The general unsuitability of the terrain for the large scale employment of armor will increase his difficulty in repelling our landings.

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The enemy has shown by previous tactics that he fully appreciates the necessity for an amphibious assault force obtaining a suitable port as early as possible. Any plan for the defence of southern FRANCE will obviously be predicated on a stubborn effort to deny the invading force access to TOULON and MARSEILLES and the various air fields in that general area. Should he be unable to prevent landings and the establishment of a beachhead, his next move will obviously require him to marshal his defences and deny as long as possible the port facilities which would enable a large force to be built up and supplied. Present strength of the southern FRANCE garrison seems to necessitate the exercise of capability e after he has been unable to contain the bridgehead.

The enemy opposition to our landings will be in direct proportion to his evaluation of the threat, the consequent danger to his overall plan of defence and the strength of reserves that he can squeeze from other portions of his ever shortening front. Pressure in northern FRANCE and RUSSIA will undoubtedly preclude any major shift in divisions so engaged. However, the strategic reserves in GERMANY and certain divisions in northern ITALY could no doubt be made available and brought into the threatened area with the usual German speed and alacrity.

Thus the enemy may be expected to exercise capabilities b and c, initially, and when it becomes impossible to contain the beachhead he may be expected to defend the port of TOULON as long as possible.

O'DANIEL
COMMANDING

OFFICIAL:
Wilson
WILSON
G-2

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BIGOT - ANVIL

Enclosure No 3 to
Appendix No 1 to
Annex No 2 to
Field Order No 12

HEADQUARTERS THIRD INFANTRY DIVISION
U. S. ARMY

BUILD - UP TABLE

DATE	UNIT	INF	TANKS	ARTILLERY 75,2:105	AST 150	TOTALS COMBAT	STRENGTH	TAC BNS	PROB-ABLE DIVS	POSS-IBLE DIVS	REMARKS
D Day	203 Arm Bn	1			300						
Initial	807 Ost Bn	1			300						
Resist	CD Bn	1			300						
Reinf.	242 Div	3	24	8	900						Only Ren Bn & 917 Regt in line
	198 Arm Reg	1			300	2100	7	1(-)	1(-)		immediately Only 1 Bn likely to move, arrive late
D + 1	63 GAF Regt	3			900						D-Day Unlikely that all 3 Bns will move
	242 Div	2	3	3	600						against beachhead Entire Div minus 1 Regt available
	? Tank Bn		35								in our sector Possibly will be encountered late
						3600	12	1	1		D-Day or early D + 1
D + 2	9 Pz Div	2		30	18	600					1 PGR against Tarvis
	244 Div	3	24	8	8	900					? Decision to move Div - see 338 re- marks; initial move to cover TOULON- MYANS area
	51 MAR Reg	2				800					Move dependent on move of 63 GAF Regt
	533 Tank Bn		80			6100	12	2	1½		Probably only 50% can reach area
D + 3	9 Pz Div	2		30	18	600					PGR against Marseilles may be relieved
	244 Div	6				1800					Mobility will be needed Decision to move will depend on
	11 Pz Div	2				800					336 move 1 PGR may be committed in effort to
	15 Tank Bgr(-)		50			9500	29	3	1½		contain Allied forces

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DATE	UNIT	INF BNS	TANKS	ARTILLERY 76.2	ARTILLERY 105	ARTILLERY 150	EST COMBAT STRENGTH	TOTALS COMBAT STRENGTH	TOTALS BNS	MAX POSS DIVS	PROBABLE DIVS	REMARKS
D ≠ 4	338 Div	2		24	8	8	600					Possibly 1 GR moves - balance needed for CD.
												See 244 Div
	157 Div	2		24	8	8	600					Not likely to appear as engaged against Maquis.
	11 Pz Div	2					800					Not likely to appear due to commitments.
	15 Pz Div		50									
								11,500	35	4½	2	
D ≠ 5 to D ≠ 10	338 Div	6					1800					
	157 Div	6					1800					Not likely to move from present area; heavily committed
	198 Div	7			36	12	2100					Either 198 or 716 Divisions needed for CD.
	189 Div	6		24	8	8	1800					Not likely to move from present area
	716 Div	7			36	12	2100					Move contingent upon 198 Div
								21,100	67	7	3 ≠	

NOTES:
1) Depending on unconfirmed reports as to units moving into garrison of southern FRANCE from NORWAY, and upon the situation in ITALY, units now necessary for duty elsewhere as 157, 189, 31. 9 Pz, 31. 11 Pz Divs may have to be reckoned with.
2) Strength does not include artillery personnel or service personnel. It is an estimate of combat infantry strength. Total strength figure of maximum possible divisions by D ≠ 10 is estimated to be about 70,000.
3) Estimated artillery based on information available plus apparent organization and function of unit.
4) 341 Assault Gun Brigade, now believed located in NARBONNE area, apparently consists of only 31 Assault guns, approximately one battalion.

1552

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HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3
U. S. ARMY

TIGOT - ANVIL

MOVEMENT TABLE

UNIT	INF: ENS:	TANKS AND ARTY	LOCATION	PROBABLE EMPLOYMENT	ROAD: DIST:	TRAVEL TIME DAY : NIGHT : MAR.:OT.:MAR.:OT.	EST TIME TO CLOSE: IN BEACH AREA: ENEMA: LOAD
TOULON-GRASSE AREA							
142 Inf Div	9	24x76.2, 8x105 G/H, 8x150 G/H	TOULON - ST RAPHAEL	CD			
197 Artillery Regt	3		HYERES	CD	25	10: 2: 16: 3:	19 24
63 GAF Regt	3		BRIGNOLES	Training	25	10: 2: 16: 3:	19 24
MARSEILLE-AVIGNON AREA							
244 Inf Div	9	24x76.2, 8x105 G/H, 8x150 G/H	AUBAGNE (MARSEILLE)	CD	50	30: 3: 33: 5:	25 35
Russian Regt	3		MARSEILLE	CD	60	22: 4: 40: 6:	21 26
9 Panzer Div	4	30x105 G/H, 18x150 How's, 80 tanks	TARASCON (NIMES)	Mob.Res.	100	40: 7: 66: 10:	29 39
	3			Maquis			
51 GAF Regt	3		EYGARIDES (AVIGNON)	Training	100	40: 7: 66: 10:	24 29
233 Inf Div	9	24x76.2, 8x105 G/H, 8x150 G/H	BARBEGAL (ARLES)	CD Maquis	115	46: 8: 77: 12:	30 40
MONTPELLIER-PERPIGNAN AREA							
716 Inf Div	7	36x105, 12x150	PERPIGNAN	Reorg., CD	240	96: 16: 160: 24:	38 48
198 Inf Div	7	36x105, 12x150	NARBONNE	Reorg., CD	150	60: 10: 100: 15:	32 42
RODEZ AREA							
Tartar Regt	3		LE PUY	Training	190	76: 13: 127: 19:	30 35
GRENOBLE AREA							
157 Rcc Div	9	24x76.2, 8x105 G/H, 8 150 G/H	AIX-LES-BAINS	Anti-Maquis Security	165	66: 11: 110: 17:	33 43
CLERMONT-FERRAND AREA							
Russian Regt	3		VICHY	Training	320	128: 21: 214: 32:	38 43
BORDEAUX AREA							
Russian Regt	3		PERIGUEUX	Training	340	136: 23: 226: 34:	40 45
Hindu Regt	3		BORDEAUX	Training	390	156: 26: 260: 39:	43 48
159 Res Div	9	24x76.2, 8x105 G/H, 8x150 G/H	LA BOUHEYRE	Training	420	168: 28: 280: 42:	50 60
				Repl			
708 Inf Div	6	24x76.2, 8x105 G/H, 8x150 G/H	ROCHEFORT	Reserve, CD	460	184: 31: 307: 46:	53 63
11 Pz Div	4	30x105 G/H, 18x150 G/H, 100 tanks	E of BORDEAUX	Anti-Maquis Reserve	390	156: 26: 260: 59:	48 58

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UNIT	INF: BNS:	TANKS AND ARTY	LOCATION	PROBABLE PRESENT DEPLOYMENT	ROAD: DIST:	TRAVEL TIME DAY	NIGHT	EST TIME TO CLOSE: IN BEACH AREA: BAR: NOT: BAR: NOT: ELEMENTS: BULK
BAYONNE AREA								
189 Res Div	9	24x76.2, 8x105 G/H, 8 150 G/H	CHATELGUYON	Tng, Repl	285	11½	19	190 29 41 51
Polish Regt	3		DAU	Training	410	16½	27	274 41 44 49

ASSUMPTIONS FOR CALCULATIONS:

1) No decision to move any major unit will be taken before H + 12 hours.
2) To alert the unit, issue orders; assemble, entruck, detruck, and close at destination, the following times have been used as a basis for calculations:

	Regt	Div
Advance elements:	5 hrs	10 hrs
Bulk of unit:	10 hrs	20 hrs

3) All movements have been assumed by M/T at an average rate of 15 mph, including necessary halts.
4) For columns 7 - 10, the following rates are assumed:

	Day	Night
March:	2.5 mph	1.5 mph
Motor:	15.0 mph	10.0 mph

1354

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HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

Inclosure No 4 to
Appendix No 1 to
Annex No 2 to
Field Order No 12

ESTIMATED ORDER OF BATTLE

157 Reserve Division

History: Originally a mobilization and training division. Became a reserve division late in 1942 and took part in the occupation of formerly unoccupied France. Transferred to the GRENOBLE area after the Italian evacuation of Southeastern FRANCE, where it has subsequently remained. Currently employed against French resistance elements.

CG: Major General KARL PFLAUM

Composition:

UNIT	ORGANIZATION	EST. COMBAT STRENGTH	ARMAMENT
157 Res. Div			
1 Res. Mtn. Inf. Regt			
98 Mt Inf Bn		300	36 LMG, 12 HMG, 6 x 50mm morts, 6 x 81mm morts
99 Mt Inf Bn		300	As above
100 Mt Inf Bn		300	As above
Inf How Co		90	6 x 75mm I/H, 2 x 150mm I/H
AT Co		90	9 x 50 or 75mm AT
7 Res Gren Regt			
19th Bn		300	27 LMG, 9 HMG, 6 x 50mm morts, 6 x 81mm morts
61 Bn		300	As above
62 Bn		300	As above
Inf How Co		90	6 x 75mm I/H, 2 x 150mm I/H
AT Co		90	9 x 50 or 75mm AT
157 Res Gren Regt			
179 Bn		300	27 LMG, 9 HMG, 6 x 50mm morts, 6 x 81mm morts
199 Bn		300	As above
217 Bn		300	As above
Inf How Co		90	6 x 75mm I/H, 2 x 150mm I/H
AT Co		90	9 x 50 or 75mm AT
7 (?) Res Arty Regt	3 Bns (7, 157, 79 Bns)	800	24 x 7.62 G/H, 8 x 150 G/H, 18 LMG.
157 Res Fux Bn (possibly non-existent)	4 Co org	300	18 LMG, 6 HMG, 4 x 81mm morts, 2 x 75mm I/H, 4 x 75mm AT.
157 Res AT Bn	3 Co org	300	18 x 50 or 75mm AT, 9 x 20mm AA,AT
157 Res Eng Bn	3 Co org	300	27 LMG, 6 flamethrowers, normal eng equipment
406 Ost Bn (may be attached to Div)			

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244 Infantry Division (LE)

History: Formed in Belgium in the summer of 1943. Moved to southeastern FRANCE during the following winter with headquarters at MARSEILLES. It is charged with coastal defense duties.

Composition:

UNIT	ORGANIZATION	EST. COMBAT STRENGTH	ARMAMENT
244 Inf Div			
932 Gren Regt			
I Bn	3 lt, 1 hv co.	300	36 LMG, 12 HMG, 6 x 50mm morts, 6 x 81mm morts
II Bn	As I Bn	300	As I Bn
III Bn (Ost)	As above Bns	300	As above Bns
Inf How Co		90	6 x 75mm I/H, 2 x 150 I/H
AT Co		90	9 x 50 or 75mm AT
933 Gren Regt	As 932 Regt		
934 Gren Regt	As above Regts		
244 Arty Regt	Probably 4 Bn org		18 LMG, 24 x 76.2 8 x 105, 8 x 150
244 Fus Bn	3 Co org	300	24 LMG, 6 x 81mm morts, 3 x 75mm AT, 2 x 75mm I/H
244 AT Bn	3 Co org	300	12 LMG, 18 x 50 or 75mm AT, 9 x 20mm AA/AT
244 Eng Bn	3 Co org	300	27 LMG, 6 flamethrowers normal eng equipment

338 Inf Div (LE)

History: This division is believed to have been formed in FRANCE early in 1943. Subsequently located in Southern FRANCE with Hq in the ARLES area. Elements of this division are now reported to be engaged against the Maquis in RHONE VALLEY area.

CG: Major General L'HOMME COURBIERE

Composition:

UNIT	ORGANIZATION	EST. COMBAT STRENGTH	ARMAMENT
338 Inf Div			
757 Gren Regt			
I Bn	3 lt, 1 hv Co	300	36 LMG, 12 HMG, 6 x 50mm morts, 6 x 81mm morts
II Bn	As I Bn	300	As I Bn
III Bn (Ost)	As above Bns	300	As above Bns
Inf How Co	3 lt, 1 hv plat	90	6 x 75mm I/H, 2 x 150mm L/H
AT Co		90	9 x 50 or 75mm AT
758 Gren Regt	As 757 Gren Regt		
759 Gren Regt	As 757, 758 Regts		
338 Fus Bn	4 Co org	300	24 LMG, 6 x 81mm mort, 3 x 75mm AT, 2 x 75mm I/H
338 AT Bn	3 Co org	300	12 LMG, 18 x 50 or 75mm AT, 9 x 20mm AA/AT
330 Eng Bn	3 Co org	300	27 LMG, 6 flamethrowers, normal eng equipment
338 Arty Regt	probably 4 Bn org		24 x 76.2, 8 x 105 G/H 8 x 150 G/H

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11 Panzer Division (F)

History: Formation completed after the French campaign during which the 11 Mtzd Infantry Brigade fought as an independent command. Took part in the Balkan campaign. Continuously engaged in RUSSIA, first in advance through the UKRAINE and subsequently on the central sector. Transferred to the southern sector in the summer of 1942. Took part in the BELGOROD offensive in the summer of 1943 and heavily engaged in the KRIVOI ROG area in the autumn of 1943. Was withdrawn to southern FRANCE and consolidated with 273 Reserve Training Division. At present located in the BORDEAUX area where it is reportedly heavily engaged against French resistance elements.

CG: Brig General WIETERSHEIM

Composition:

UNIT	ORGANIZATION	EST. COMBAT STRENGTH	ARMAMENT
11 Panzer Div			
15 Pz Regt			
I Bn	4 Co org	400	50 - 60 Mk III and Mk IV's.
II Bn	As I Bn	400	As above
III Bn	Possibly non-existent	400	Possibly 36 x 75mm AG
110 PGR			
I Bn	3 lt, 1 hv co.	400	48 LMG, 12 HMG, 6 x 81mm mortars, 6 x 37 AT, 3 x 75 AT, 2 75 I/H
II Bn	As I Bn	400	As I Bn
Inf How Co		100	6 x 75mm I/H
111 PGR			
I Bn	3 lt, 1 hv co.	400	48 LMG, 12 HMG, 6 x 81mm mortars, 6 x 37mm AT, 3 x 75mm AT 2 x 75mm I/H
II Bn	As I Bn	400	As I Bn
Inf How Co		100	
119 Pz Arty Rgt	Probably 3 Bn org		30 x 105 G/H, 18 x 150 G/H.
11 Pz Rcn Bn	Probably 5 Co org	400	50 armd cars, 48 LMG, 12 x 20 AA/AT; 4 x 75mm I/H (SP), 12 HMG
? AT Bn	Probably 3 Co org	300	12 x [illegible]mm AA/AT, 9 x 75mm AT (SP)
209 Pz Eng Bn	Probably 3 Co org	300	27 LMG, 12 x 20mm AA/AT.
341 Pz Sig Bn	Probably 2 Co org	300	9 LMG.

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9 Panzer Division (F)

Insignia:  (yellow)

History: An active division, formerly the 4 Lt Div. Took part in Polish, French and Balkan campaigns. Later transferred to RUSSIA where it has been engaged continuously until DNIEPER engagement. Remnants from this engagement were withdrawn to the NIMES area in FRANCE, and in the spring of 1944 were consolidated with the 155 Panzer Reserve Division, a former Panzer training unit. At present operating in MARSEILLES - AVIGNON area as Army Reserve, with some elements reported engaged against the Maquis.

CG: Maj General SCHELLER

Composition:

UNIT	ORGANIZATION	EST. COMBAT STRENGTH	ARMAMENT
9 Pz Div			
33 Tank Regt			
I Bn	4 Co org	400	Probably 40-50 Mk IV's and Mk III's.
II Bn	As I Bn	400	As I Bn
III Bn	Possibly non-existent	400	36 x 75mm SP's.
10 PGR			
I Bn	4 Co org	400	48 LMG, 12 HMG, 6 x 81mm mort, 6 x 37mm AT 3 x 75mm AT, 2 x 75mm I/H.
II Bn	As I Bn	400	As I Bn
Inf How Co		100	6 x 75mm I/H (SP), 2 x 150mm I/H (SP)
11 PGR			
I Bn	4 Co org	400	48 LMG, 12 HMG, 6 x 81 morts, 6 x 37mm AT, 3 x 75mm AT, 2 x 75mm I/H
II Bn	As I Bn	400	As I Bn
Inf How Co		100	6 x 75mm I/H (SP) 2 x 150mm I/H (SP)
102 Pz Arty Regt	4 Bn org	800	30 x 105 G/H 18 x 150 G/H
50 Pz AT Bn	3 Co org	300	12 x 88mm AA/AT, 9 x 75mm AT (SP)
9 Pz Rcn Bn	Possibly 5 Co org	400	50 Armd Cars, 48 LMG, 12 x 20mm AA/AT, 4 x 75mm AT, 4 x 75mm I/H (SP), 12 HMG
86 Pz Eng Bn	3 Co org	300	27 LMG, 12 x 20mm AA/AT
81 Sig Bn	2 Co org	300	9 LMG

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242 Infantry Division (LE)

History: Formed in BELGIUM in the summer of 1943. During the fall of 1943 it was transferred from Southern BELGIUM to Southern FRANCE where, in the TOULON area, it replaced the 356 Infantry Division which had moved to northwestern ITALY. The 919 Gren Regt. has been identified on the NORMANDY beachhead perimeter, where it operates u/c of the 709 Infantry Division. The 242 Infantry Division, listed as a limited employment division, may have under its command the 765 Gren Regt, which has been operating independently.

CG: Brigadier General BAESSLER

Composition:

UNIT	ORGANIZATION	EST. COMBAT STRENGTH	ARMAMENT
242 Inf Div			
917 Gren Regt			
I Bn	3 lt, 1 hv co	300	36 LMG, 12 HMG, 6 x 50mm morts, 6 x 81mm morts.
II Bn	As I Bn	300	As I Bn
III Bn (Ost)	As above Bns	300	As above Bns
Inf How Co	3 lt, 1 hv pls	90	6 x 75mm I/H, 2 x 150mm I/H
AT Co	Probably 3 pls	90	9 x 50 or 75mm AT
918 Gren Regt	As 917 Gren Regt		
919 Gren Regt	As 917, 918 Gren Regts (detached; u/c of 709 Inf Div.)		
765 Gren Regt	(possibly operating u/c 242 Inf Div)		
I Bn	3 lt, 1 hv Co	350	36 LMG, 12 HMG, 6 x 50mm morts, 6 x 81mm morts.
II Bn	As I Bn	350	As I Bn
III Bn	As above Bns	350	As above Bns
Inf How Co	3 lt, 1 hv pls	90	6 x 75mm I/H, 2 x 150mm I/H
AT Co	3 pls	90	9 x 50 or 75mm AT
242 Arty Regt	probably 4 bns	800	18 LMG, 24 x 76.2, 8 105, 8 x 150's.
242 Fus Bn	3 Co org	300	24 LMG, 6 x 81mm morts, 3 x 75mm AT, 2 x 75mm I/H
242 AT Bn	Possibly 3 Co org	300	12 LMG, 18 x 50 or 75mm AT, 9 x 20mm AA/AT.
242 Eng Bn	Possibly 3 Co org	300	27 LMG, 6 flamethrowers normal eng equipment.
242 Sig Bn	2 Co org		17 LMG

NOTE: Information on this division is meager; this estimate is based on information available weighed against comparison with units of similar type encountered in the field.

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GOINGS

ST. TROPE

FRANCE 1:25,000

French Lambert Zone III Grid — Origin 44°06'N. 2°20'13·95"E. of Greenwich.
Carroyage Lambert Français Zone III — Origine 49°N. Méridienne de Paris.

HILLY & WOODED

HILLY WOODED

GRIMAUD

60'

30'

C.

78' B.

Dry Weather Road

NARROW TREE-LINED DITCHES

(?45'

30'

55'

HILLY PARTIALLY WOODED

HILLY TERRACED

20'

25'

Cogolin

45'

30'

45'

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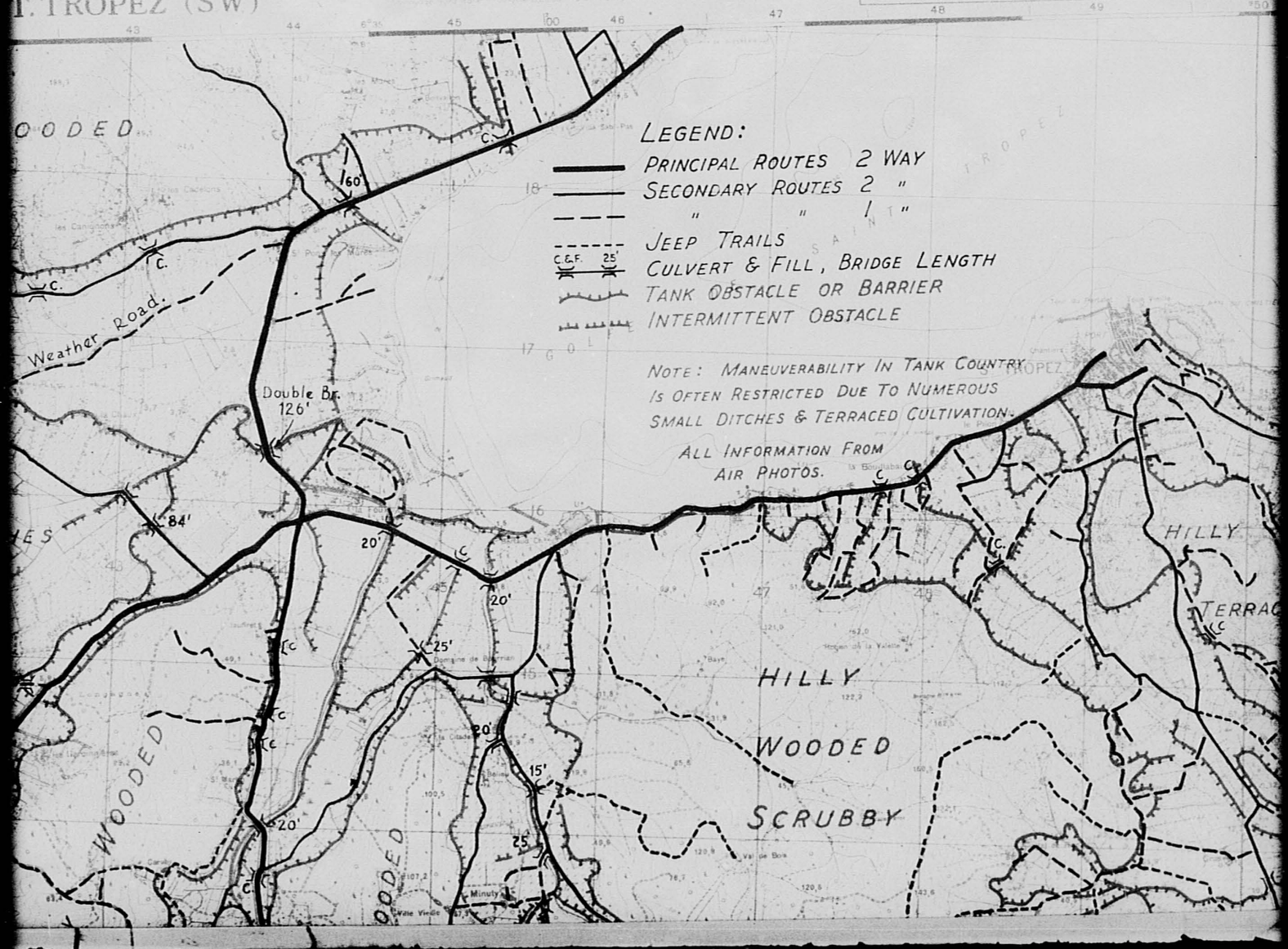
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OINGS MAP
T. TROPEZ (SW)

SECOND EDITION

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POUR TOUTE REFERENCE
MENTIONNER



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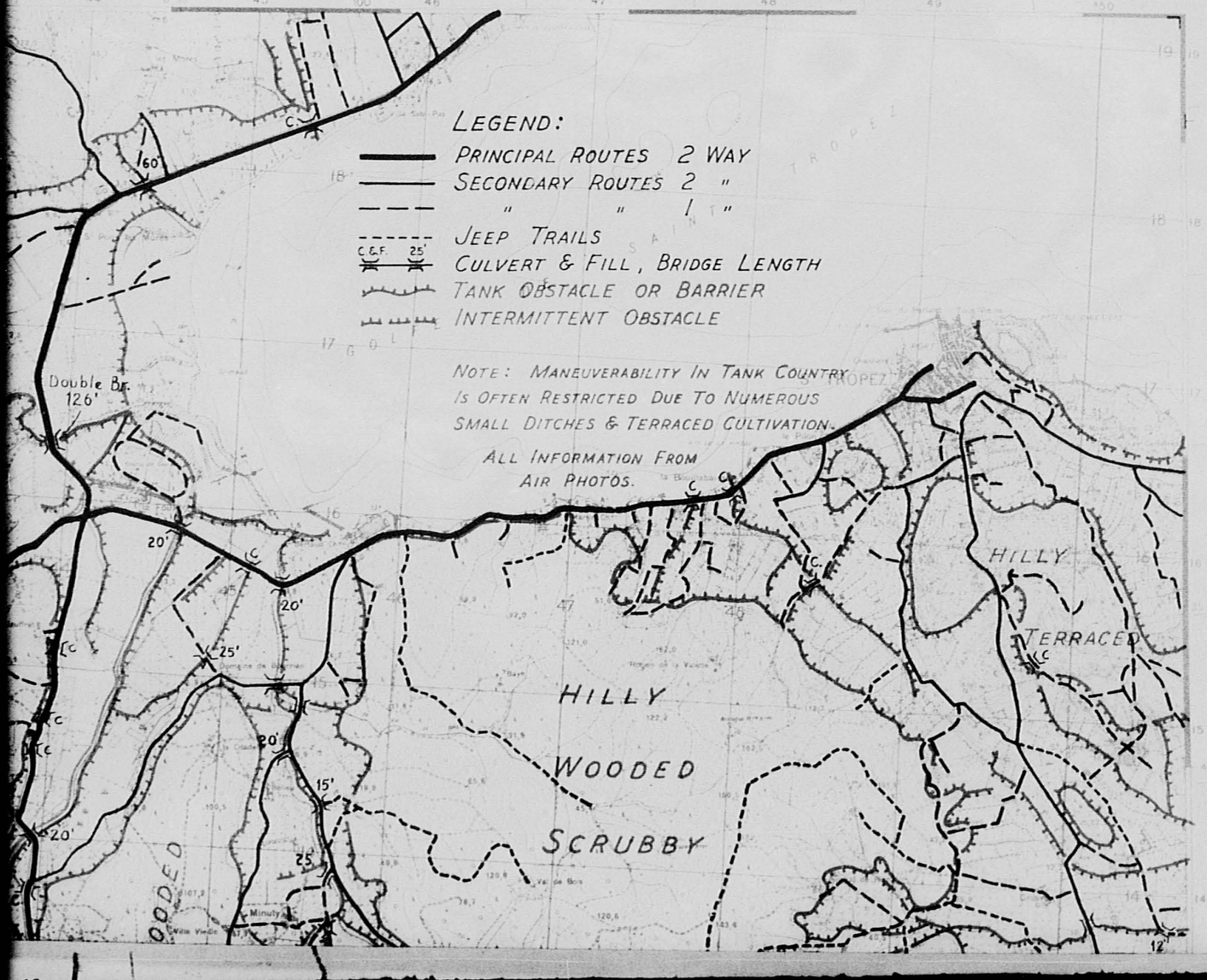
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SECOND EDITION

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POUR TOUTE REFERENCE
MENTIONNER

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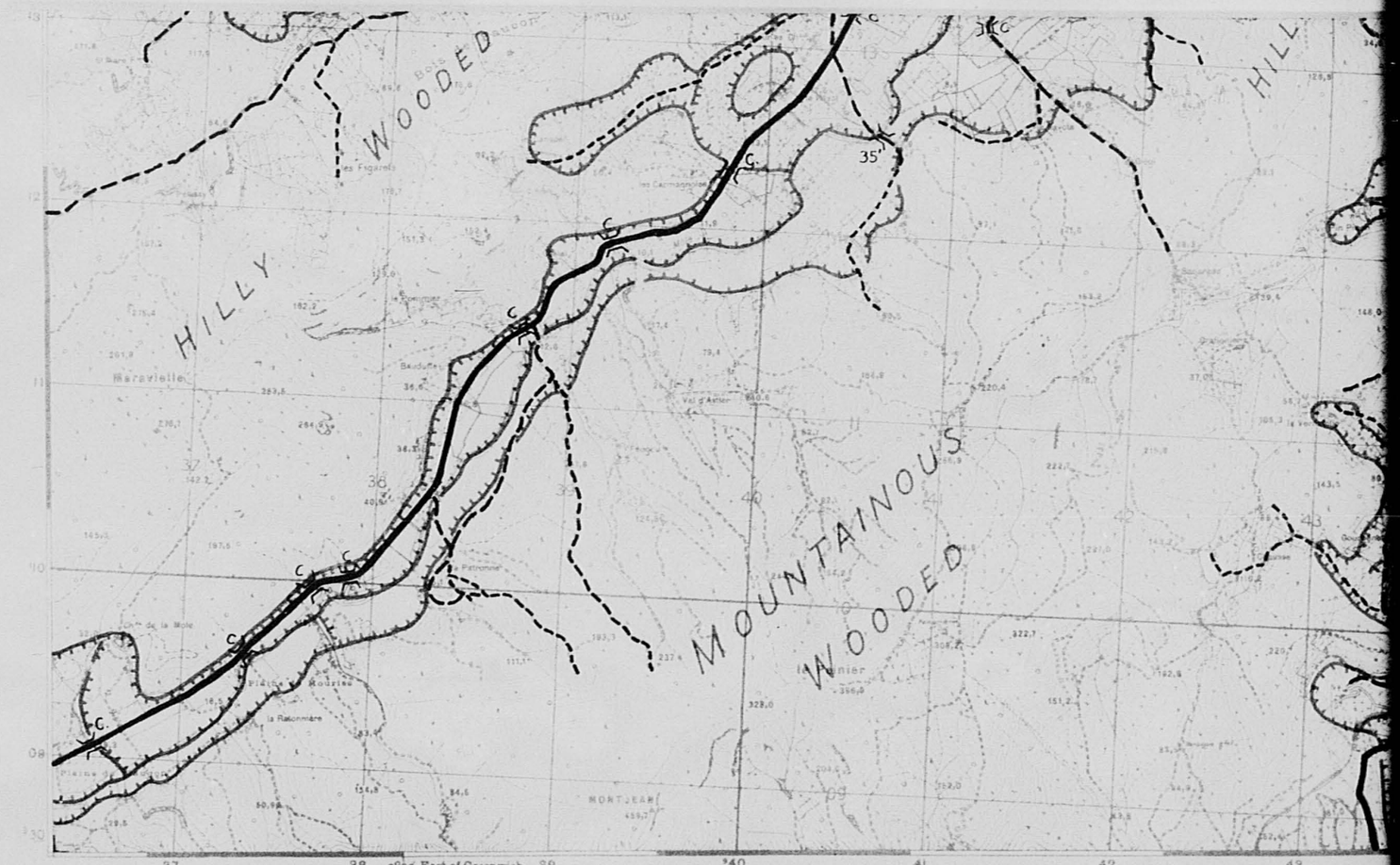


1362

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Geographical Section, General Staff, No 4411
Published by War Office 1943

Revised by 518 Corps Field Survey Coy R E
from Air Photographs dated Aug 43

Revisé par 518 Corps Field Survey Coy R E
d'après photos aériennes d'Août Aug 43

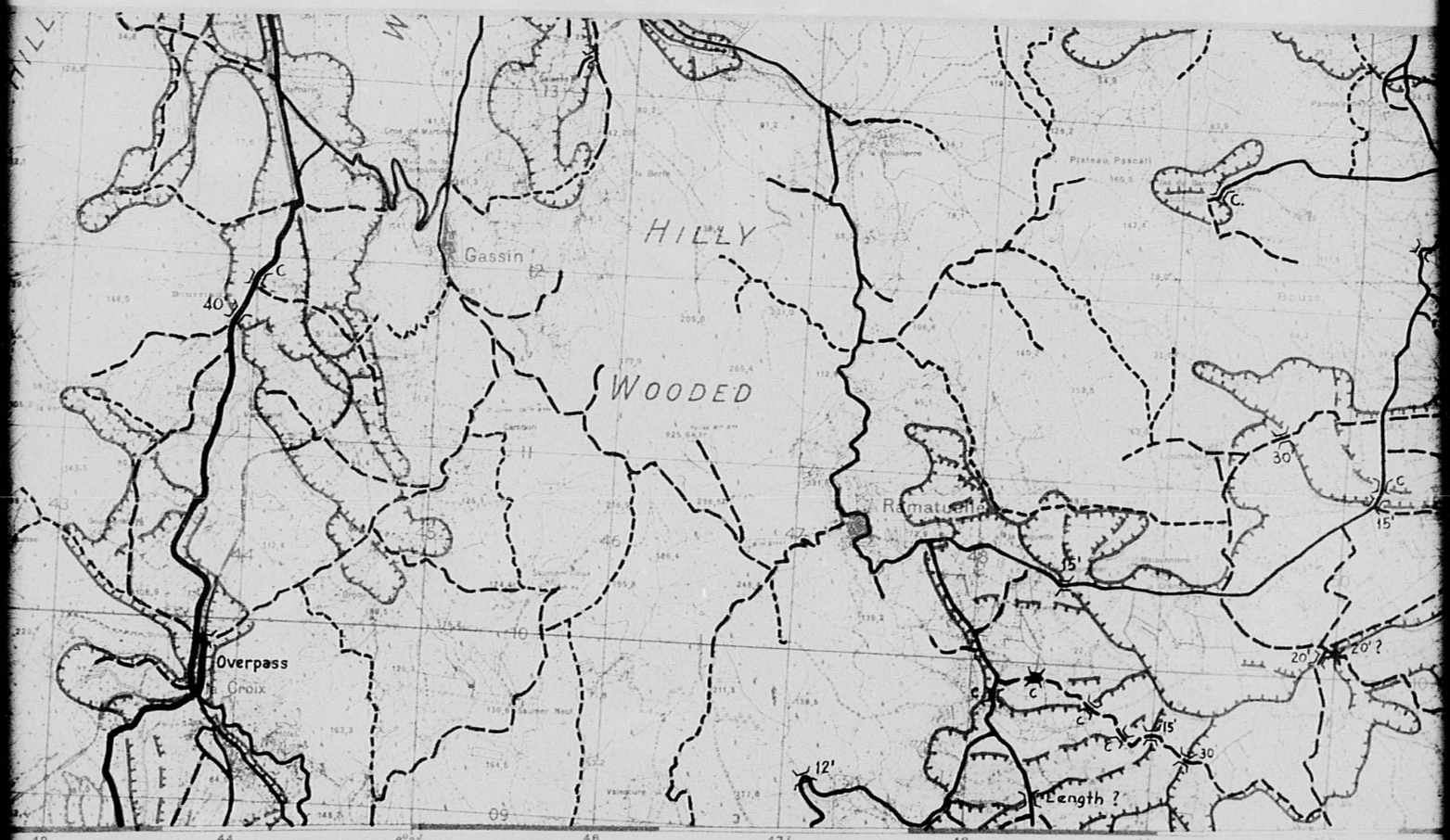
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France 1:25000 sheet XXXV-45 S&E

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Scale 1:25,000 Echelle

Contour Interval 10 metres Equidistance des courbes

Prepared by P.I.U. 3d U.S. Inf.

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
EXEMPLE D'UN POINT DONNE DU CARROYAGE SUR CETTE CARTE

LETTER	U
EAST	37
NORTH	15
REFERENCE to nearest 100m	U 372157

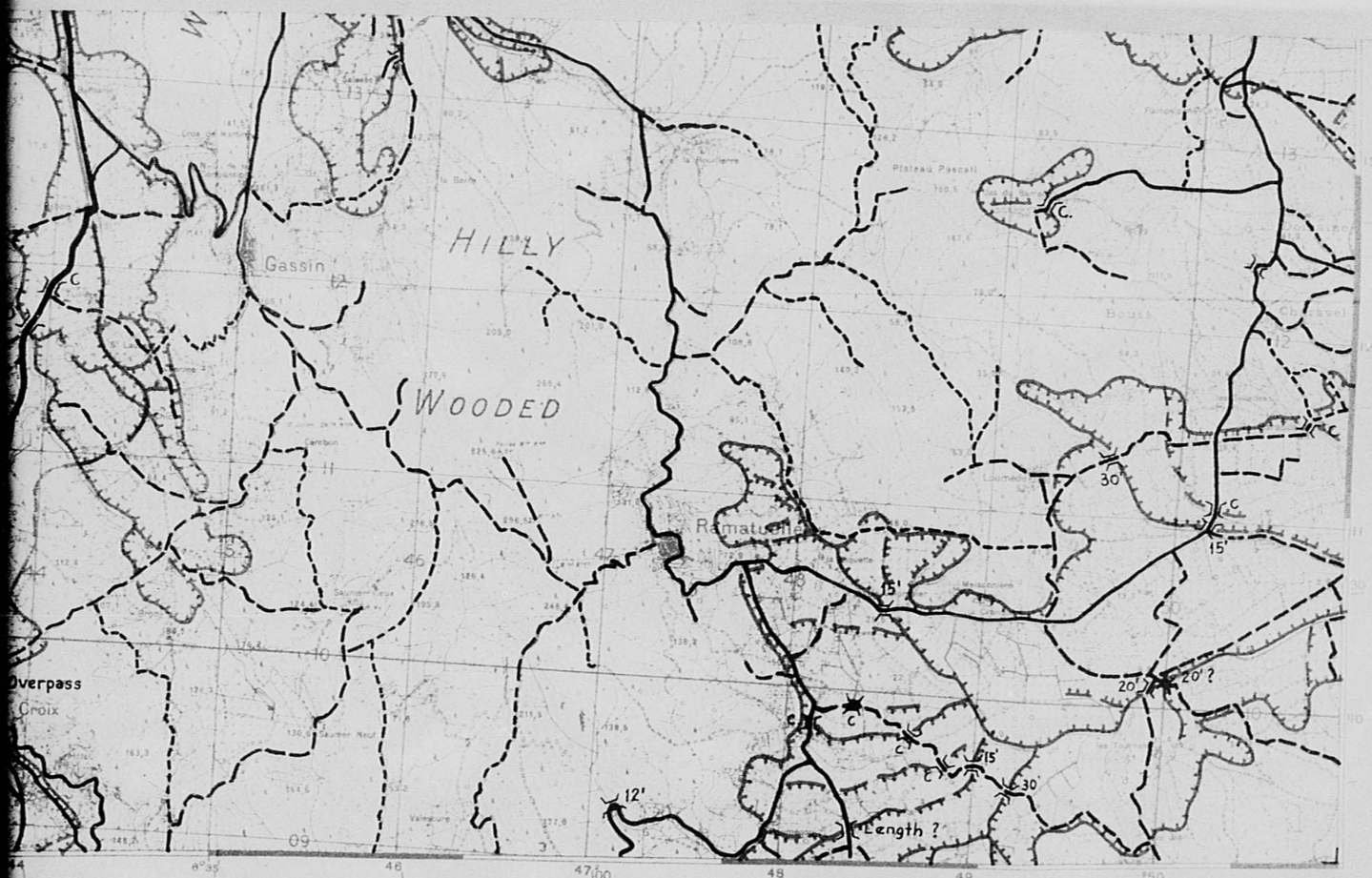
The grid lines in the margin refer to the North Italy Grid
Les chiffres de la marge correspondent au système de projection Nord Italie

1364

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Scale 1:25,000 Echelle

Contour Interval 10 metres Equidistance des courbes

Prepared by P.I.U. 3d U.S. Inf. Div.

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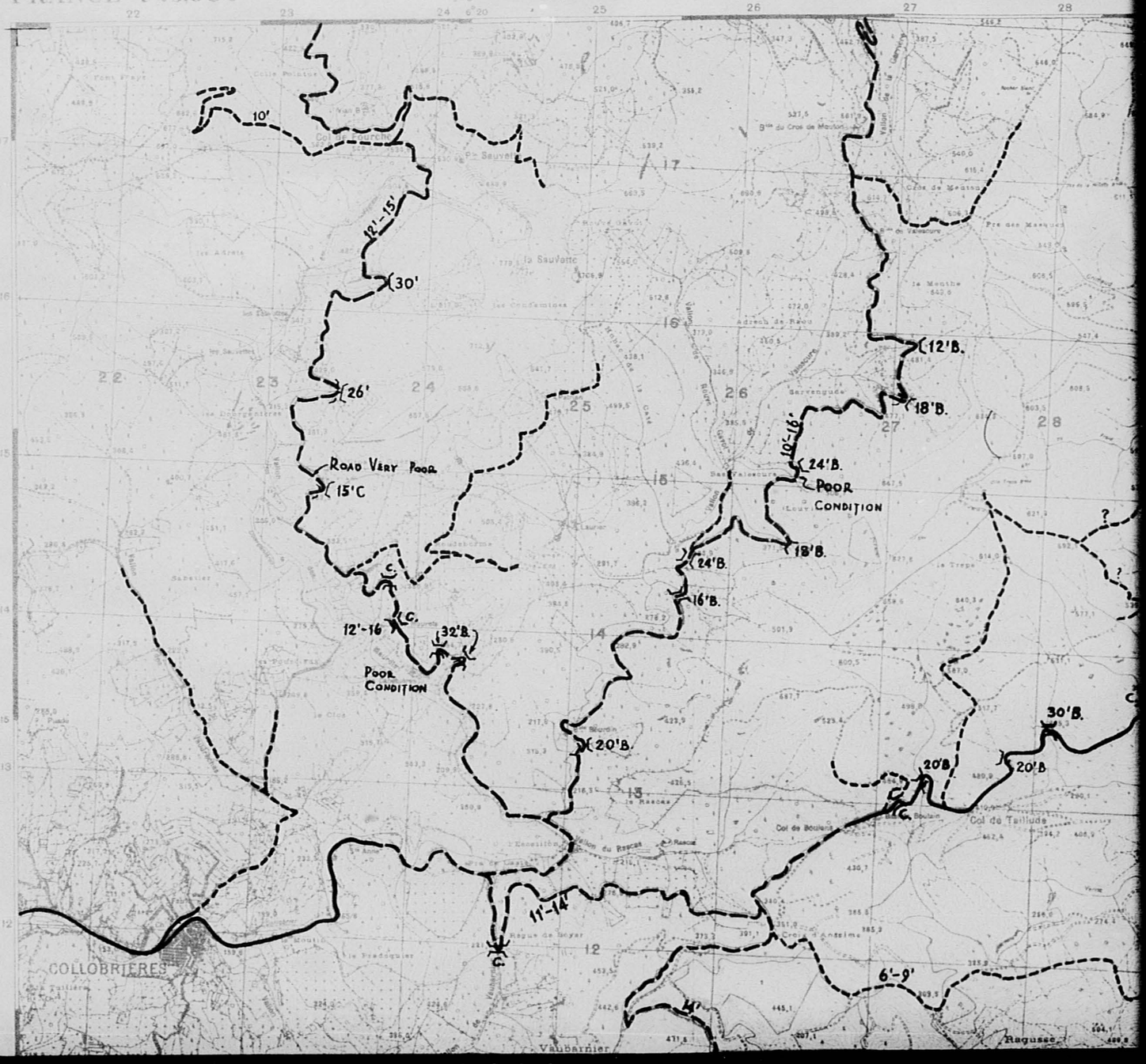
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OP SECRET - ULTRA SECRET

GOING
COLLOBRI

FRANCE 1:25.000

French Lambert Zone III Grid — Origin 44°06'N. 2°20'13.95"E. of Greenwich
Carroyage Lambert Français Zone III — Origine 49°N. Méridienne de Paris.



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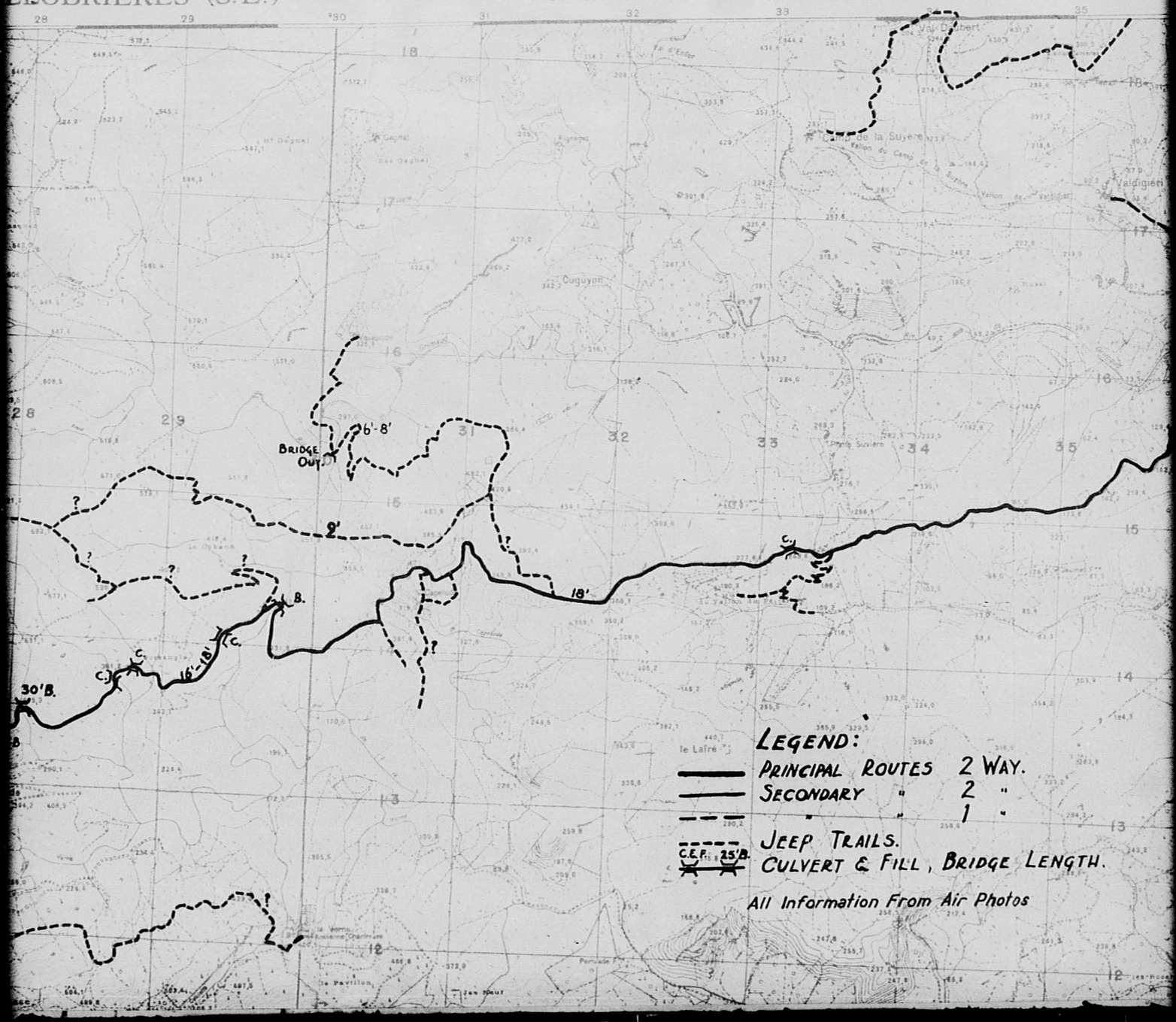
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GOINGS MAP
LLOBRIERES (S.E.)

FIRST EDITION

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POUR TOUTE REFERENCE
MENTIONNER



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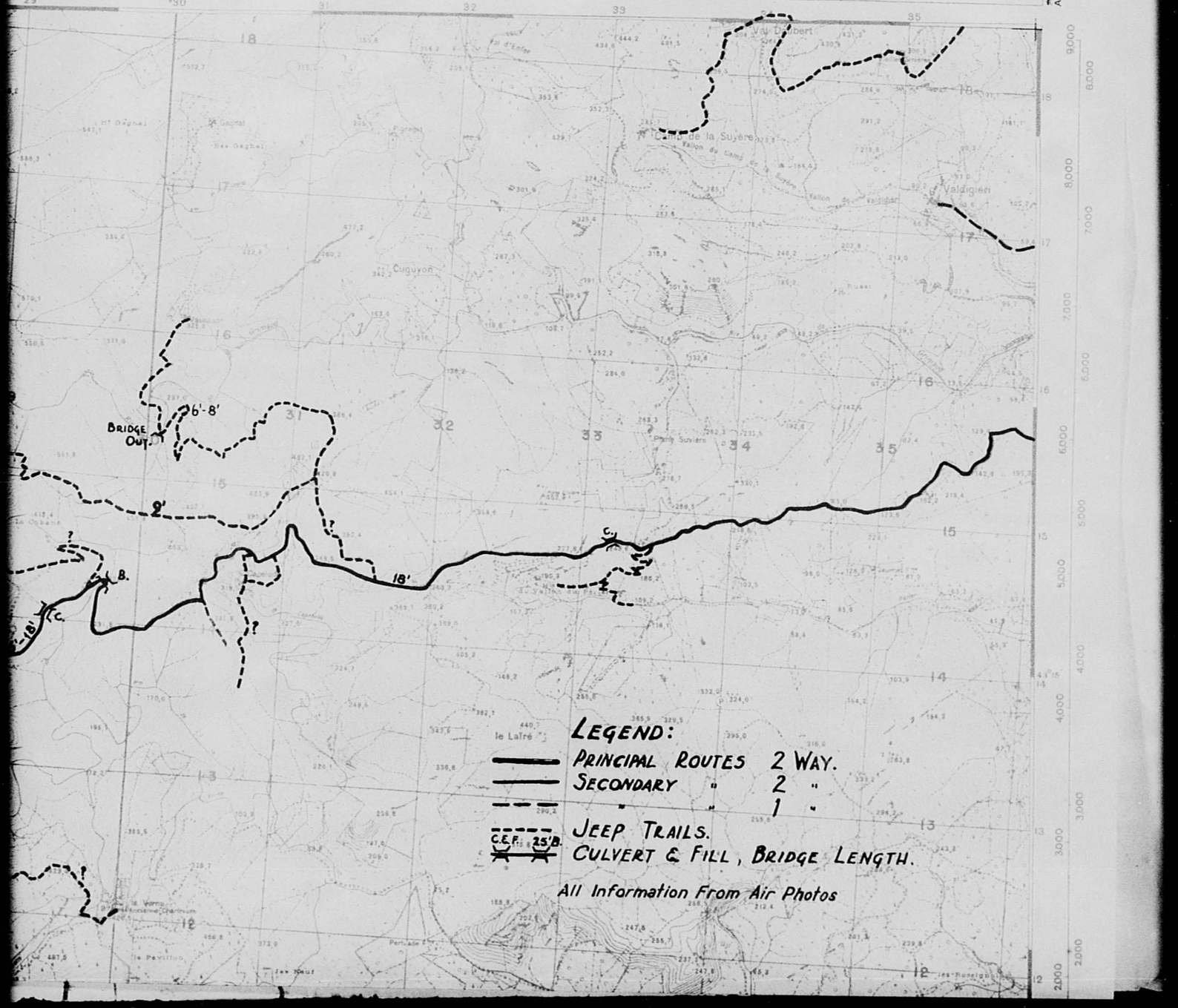
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MAP
CS (S.E.)

FIRST EDITION

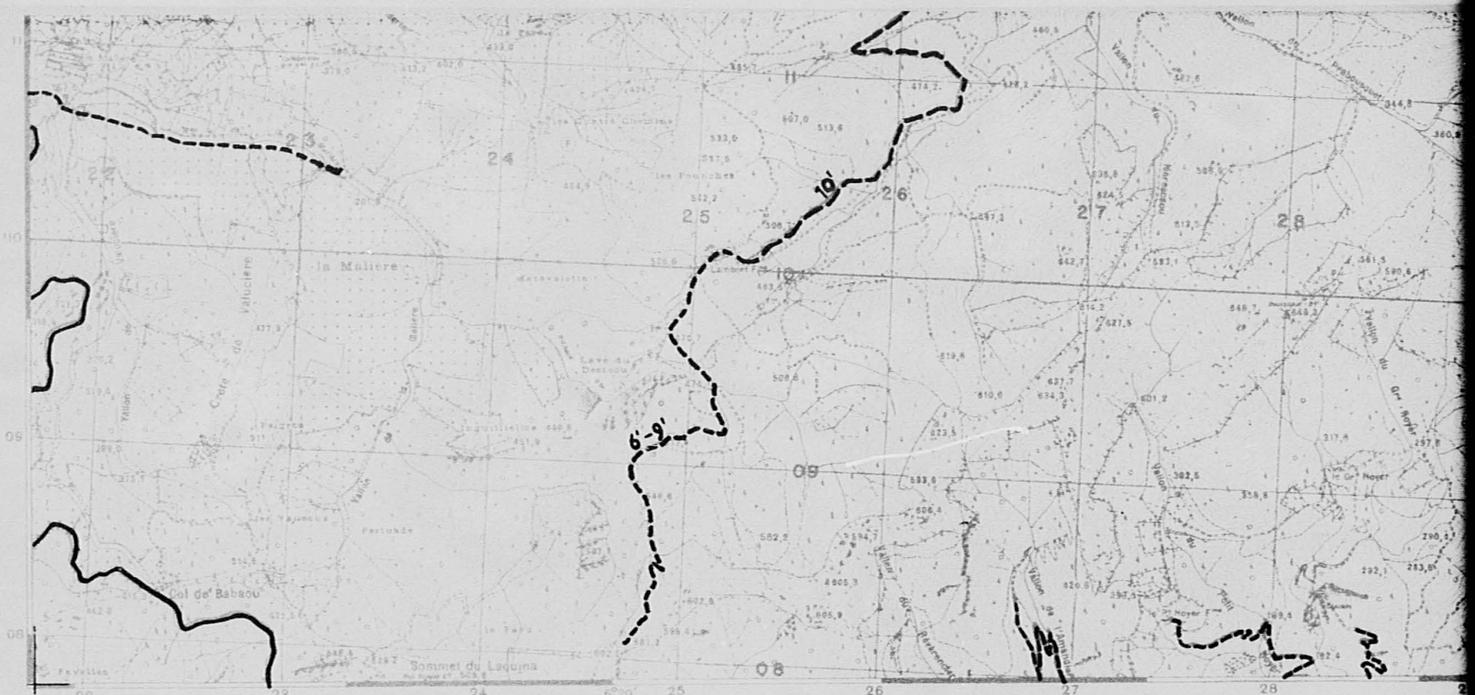
REFER TO THIS MAP AS FRANCE 1:25,000 SHEET FEUILLE XXXIV-45 7/8
POUR TOUTE REFERENCE
MENTIONNER

AF 4515



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Geographical Section, General Staff, N°441
Published by War Office 1943.

This sheet has been compared with recent aerial photographs and has been found to be up-to-date.

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France 1:25000 sheet XXXIV-45 708

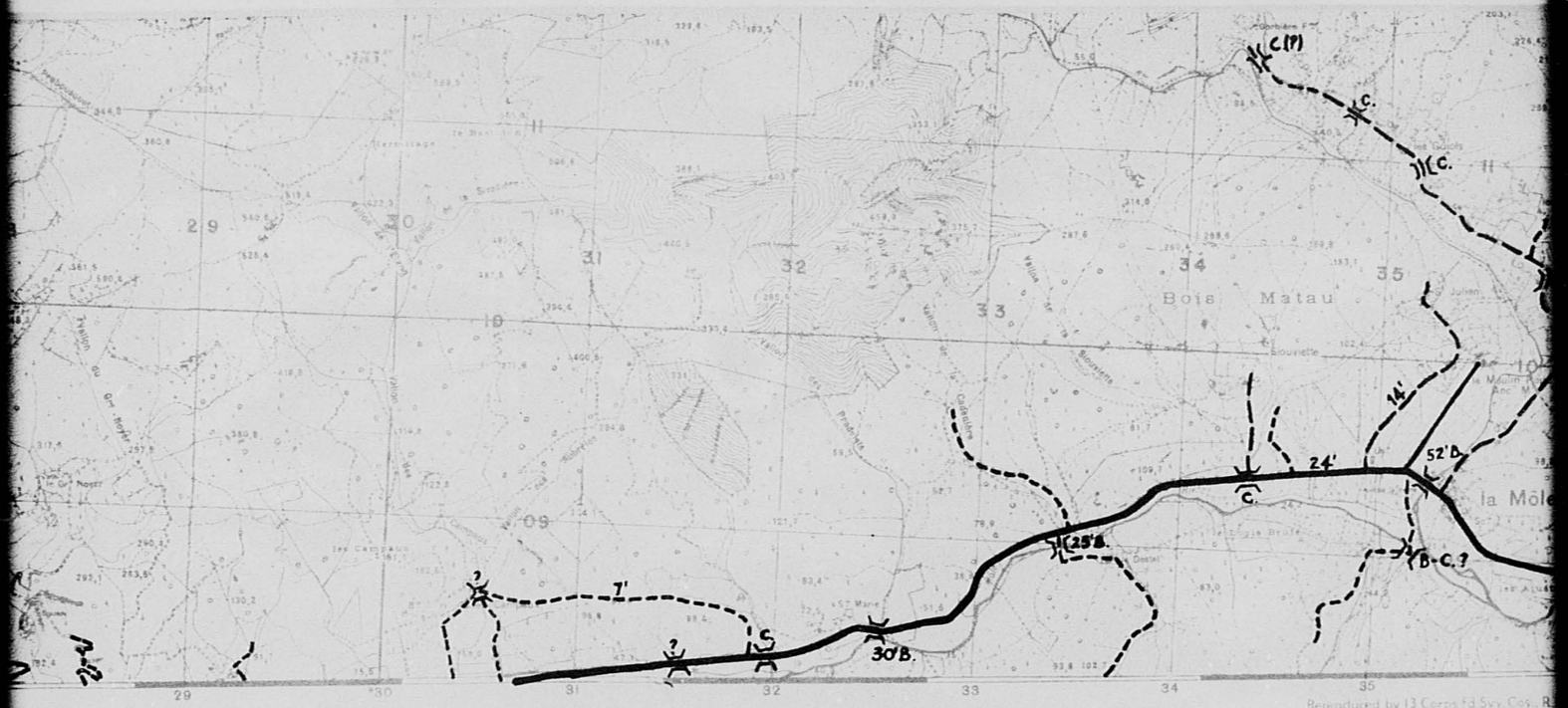
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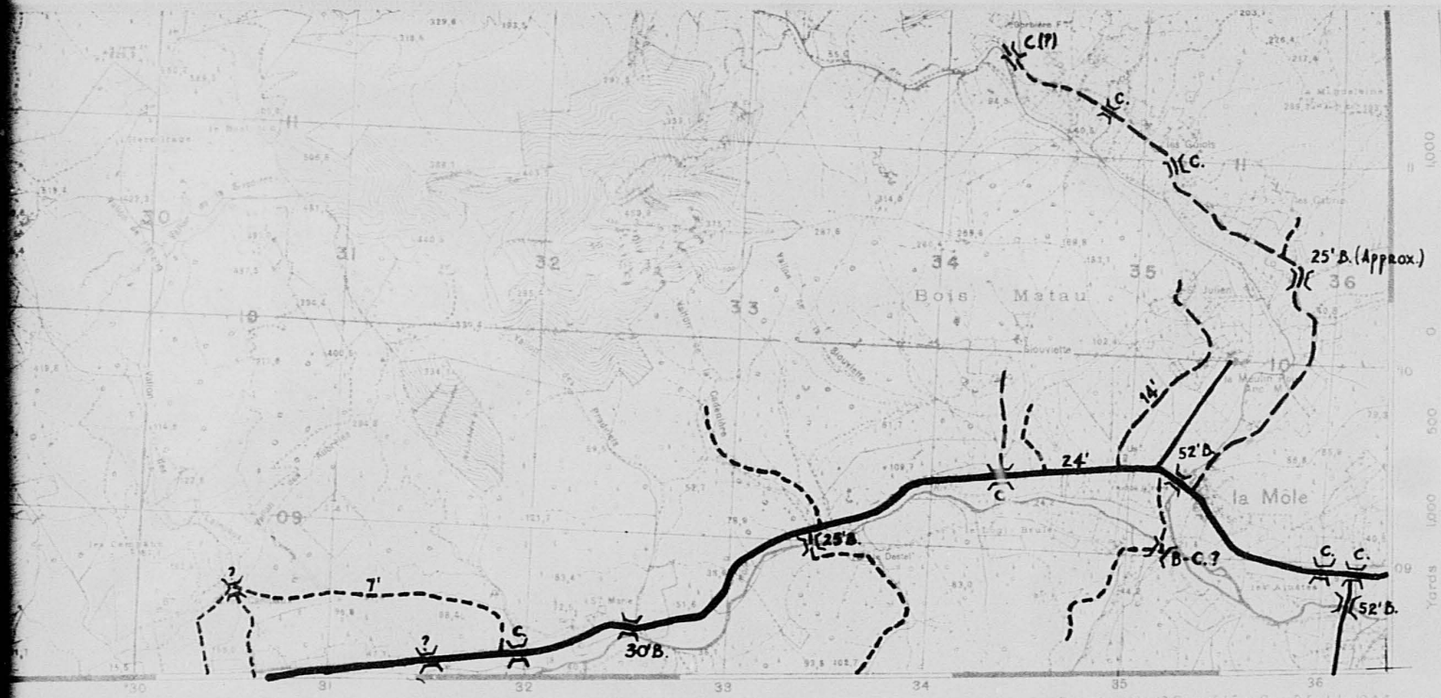
Contour Interval 10 metres Equidistance des courbes

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GOING

FRANCE 1:25,000

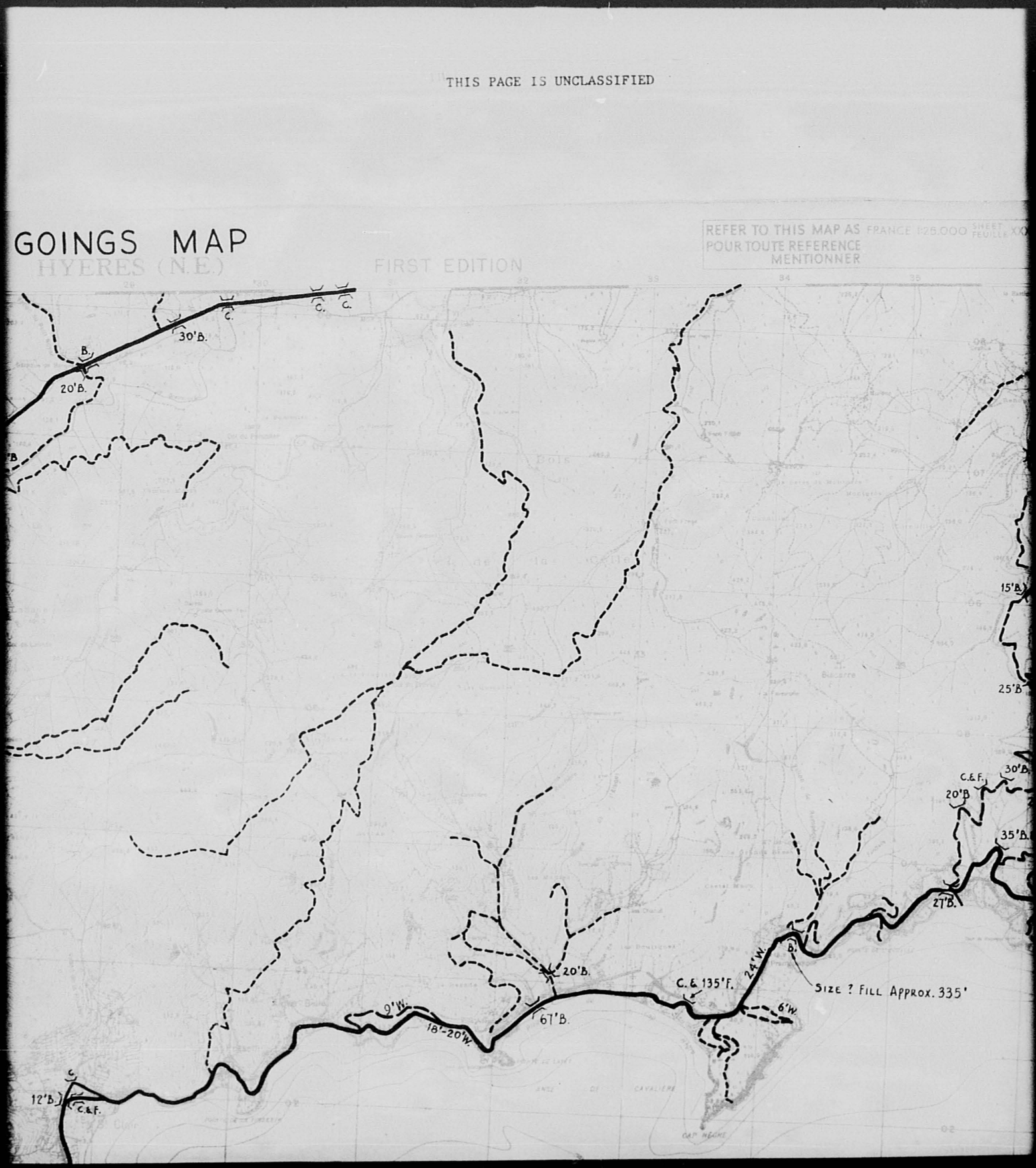


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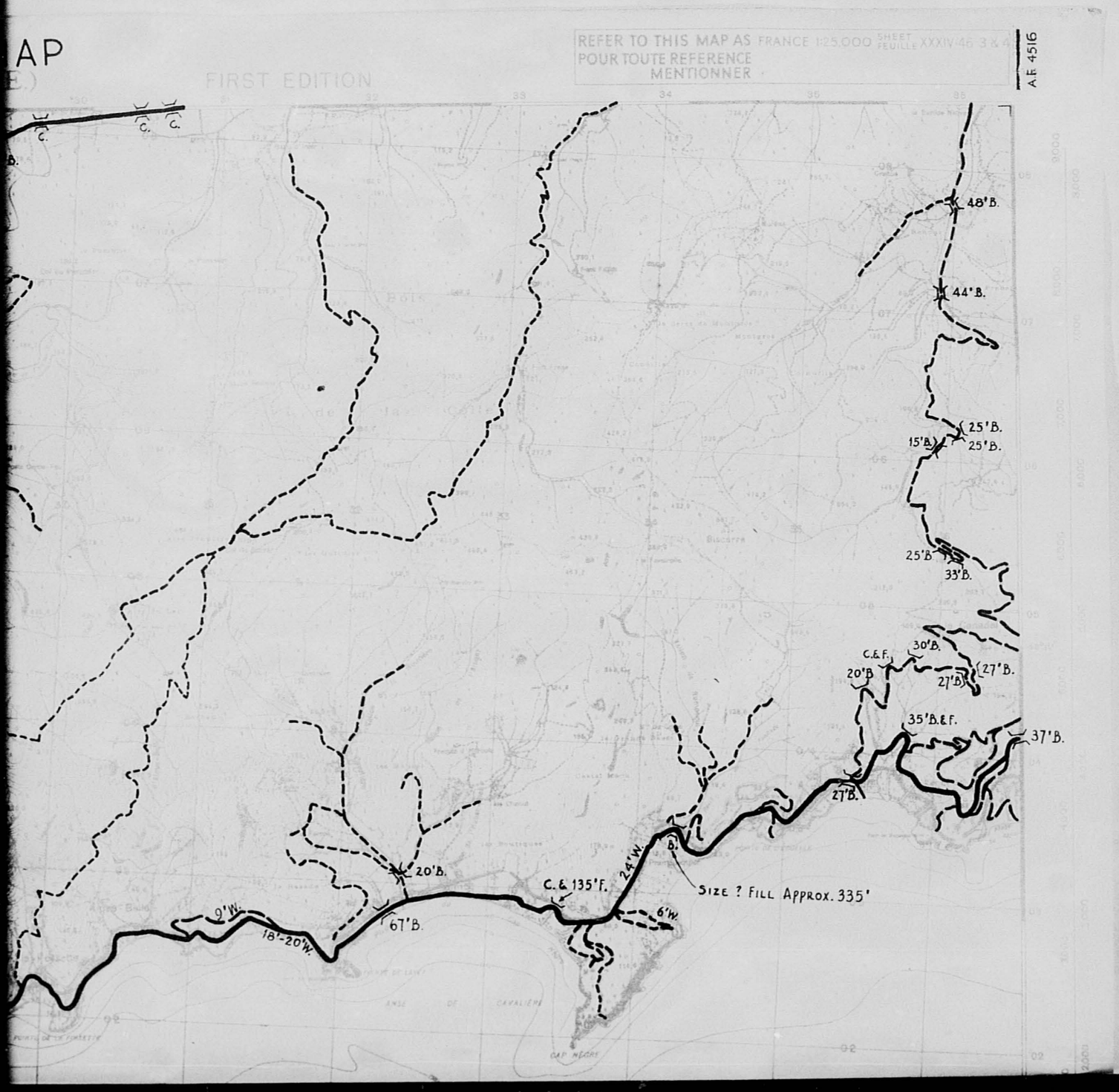
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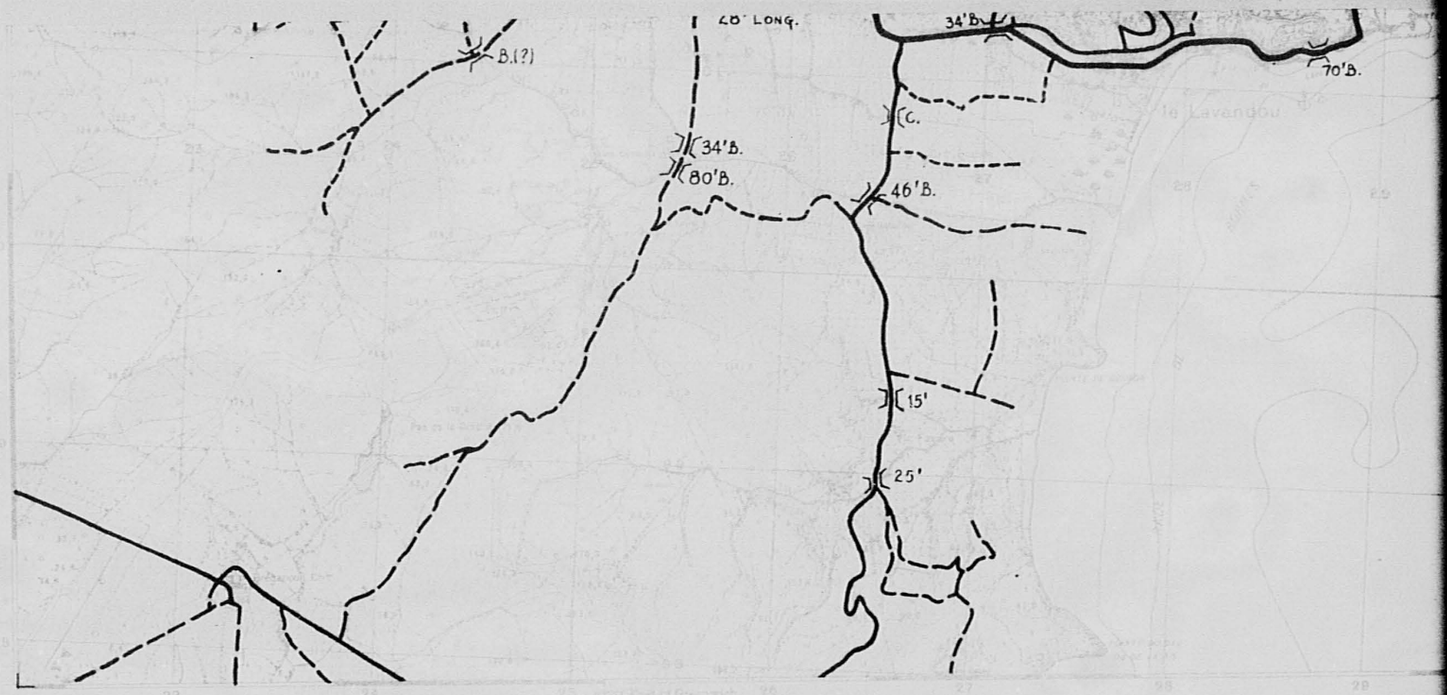
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REFER TO THIS MAP AS:
France 1/50000 Sheet XXXIV 36
3 & 4

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70'B.

LEGEND:

PRINCIPAL ROUTES 2 WAY.
SECONDARY " 2 "
" " 1 "
JEEP TRAILS.
C&F. 25'B. CULVERT & FILL, BRIDGE LENGTH.

All Information From Air Photos

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Contour Interval 10 metres Equidistance des courbes

RELIABILITY DIAGRAM

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LEGEND:

PRINCIPAL ROUTES 2 WAY.

SECONDARY " 2 "

" " 1 "

JEEP TRAILS.

C&F. 25'B. CULVERT & FILL, BRIDGE LENGTH.

All Information From Air Photos

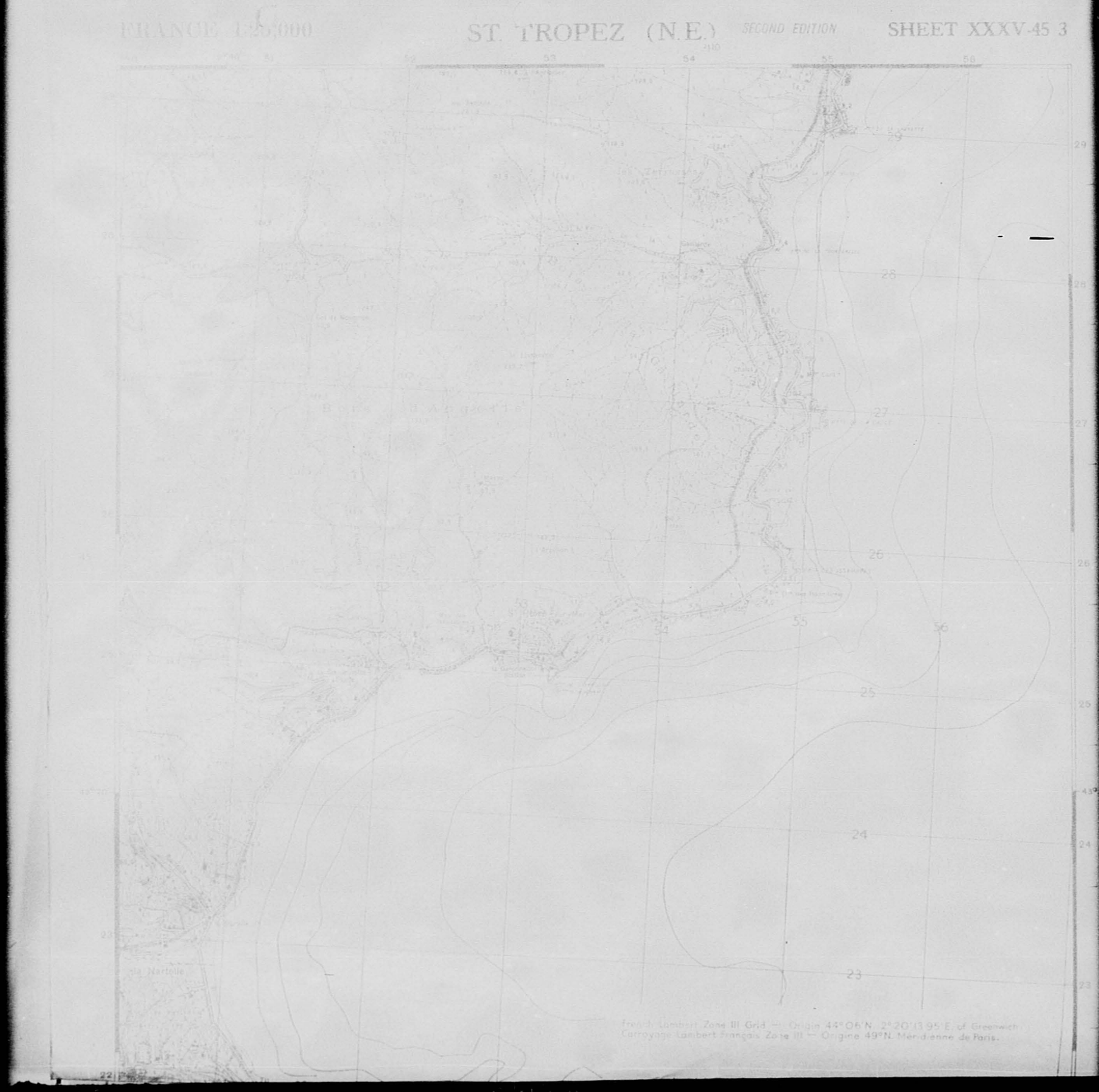
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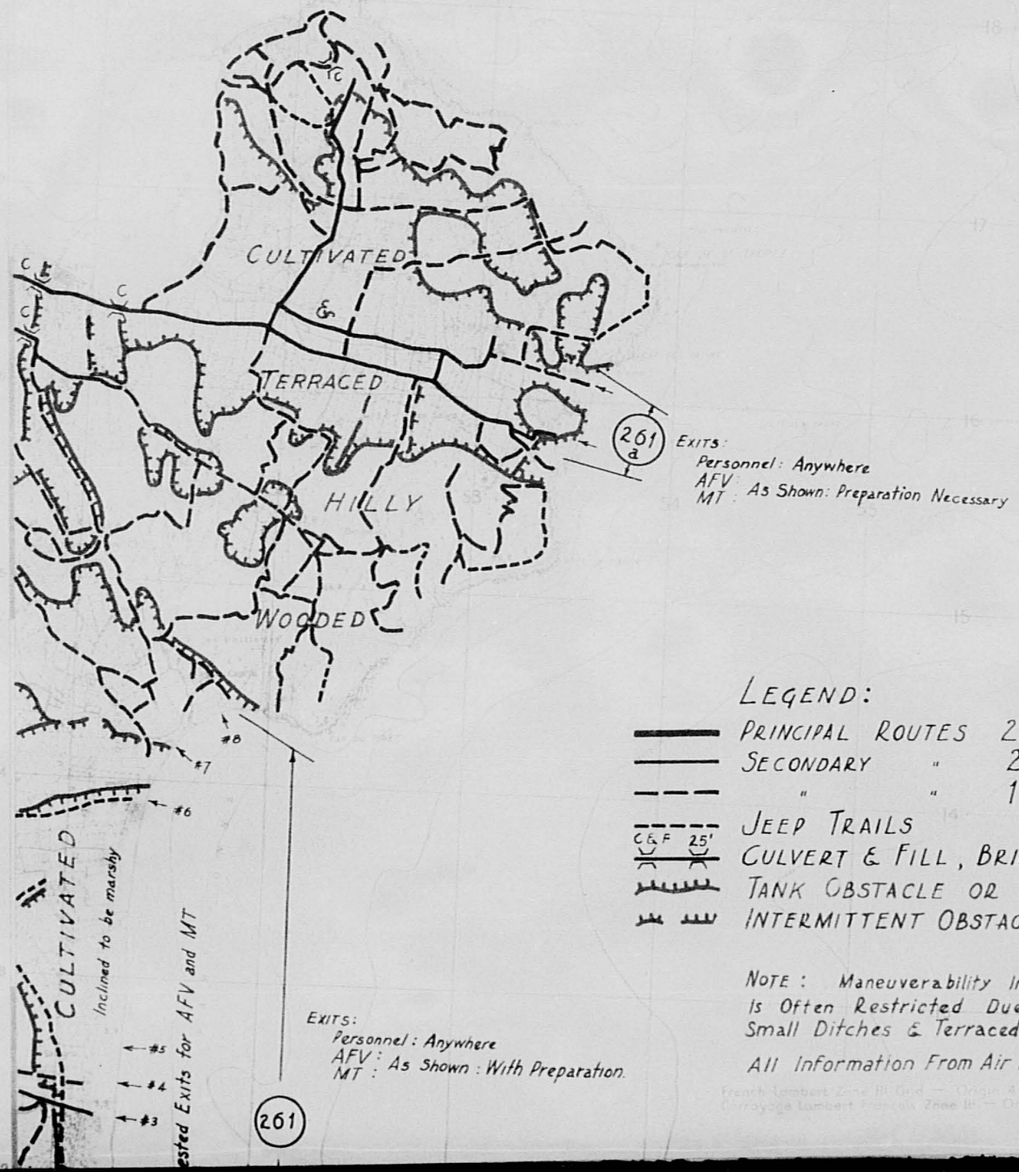
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GOINGS MAP



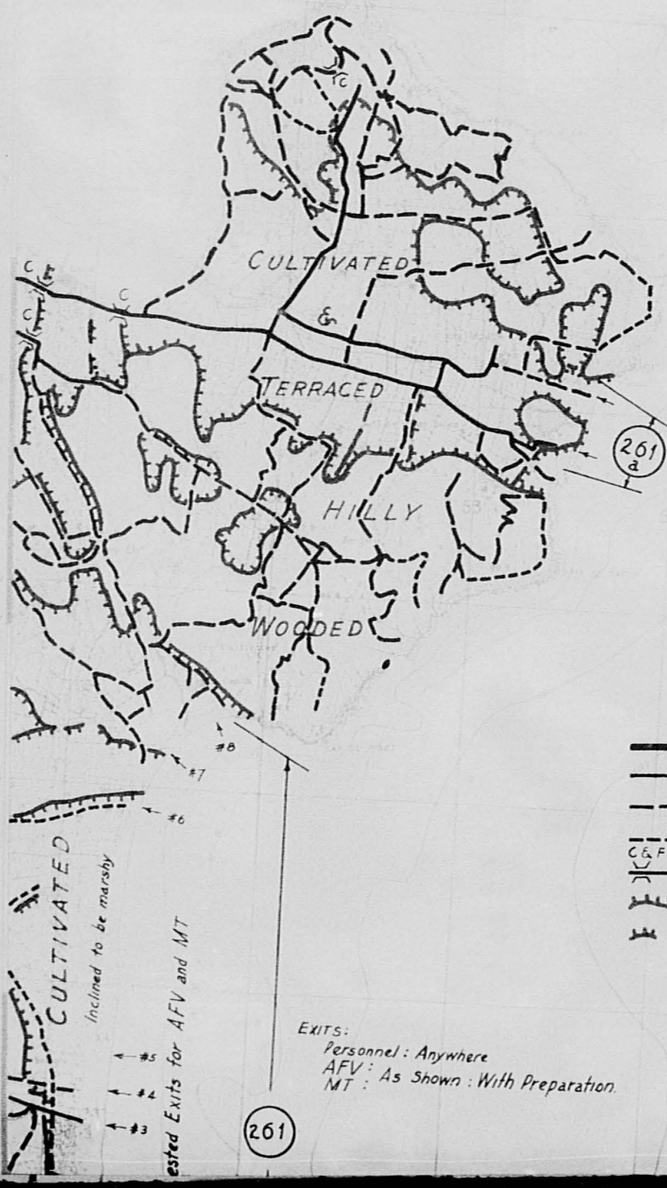
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GOINGS MAP

REFER TO THIS MAP AS FRANCE 1/25,000 SHEETS XXXV-45 6 & 7 FEUILLES
POUR TOUTE REFERENCE
MENTIONNER
A.F. 4513
SECOND EDITION SHEET XXXV-45 7



261a
EXITS:
Personnel: Anywhere
AFV
MT: As Shown: Preparation Necessary

EXITS:
Personnel: Anywhere
AFV: As Shown: With Preparation

LEGEND:
- PRINCIPAL ROUTES 2 WAY
- SECONDARY " 2 "
- " " 1 "
- JEEP TRAILS
- C & F 25' CULVERT & FILL, BRIDGE LENGTH.
- TANK OBSTACLE OR BARRIER.
- INTERMITTENT OBSTACLE

NOTE: Maneuverability In Tank Country Is Often Restricted Due To Numerous Small Ditches & Terraced Cultivation.

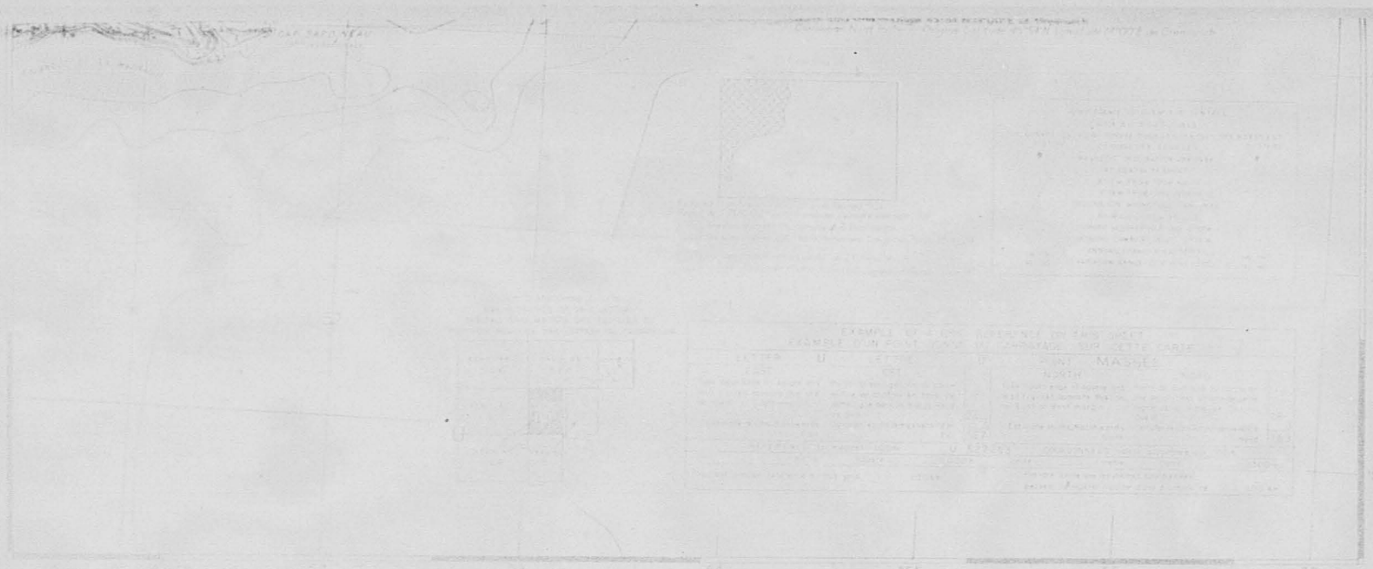
All Information From Air Photos

French Transport Zone III Grid — Origin 44°06'N, 2°20'13.95"E of Greenwich.
Carroyage Lambert Français Zone III — Origine 55°N. Meridienne de Paris.

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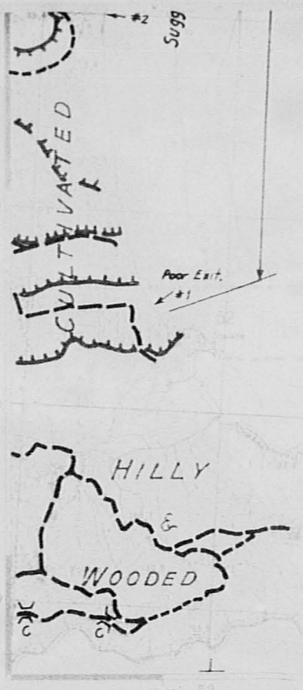
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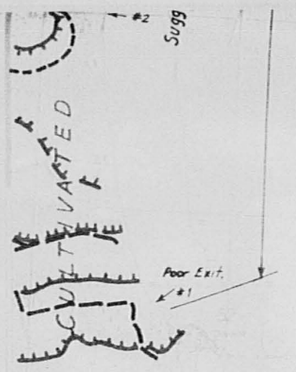
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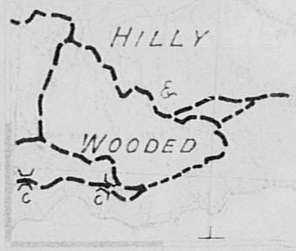


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Scale 1:25,000 Echelle

Contour Interval 10 metres Equidistance des courbes

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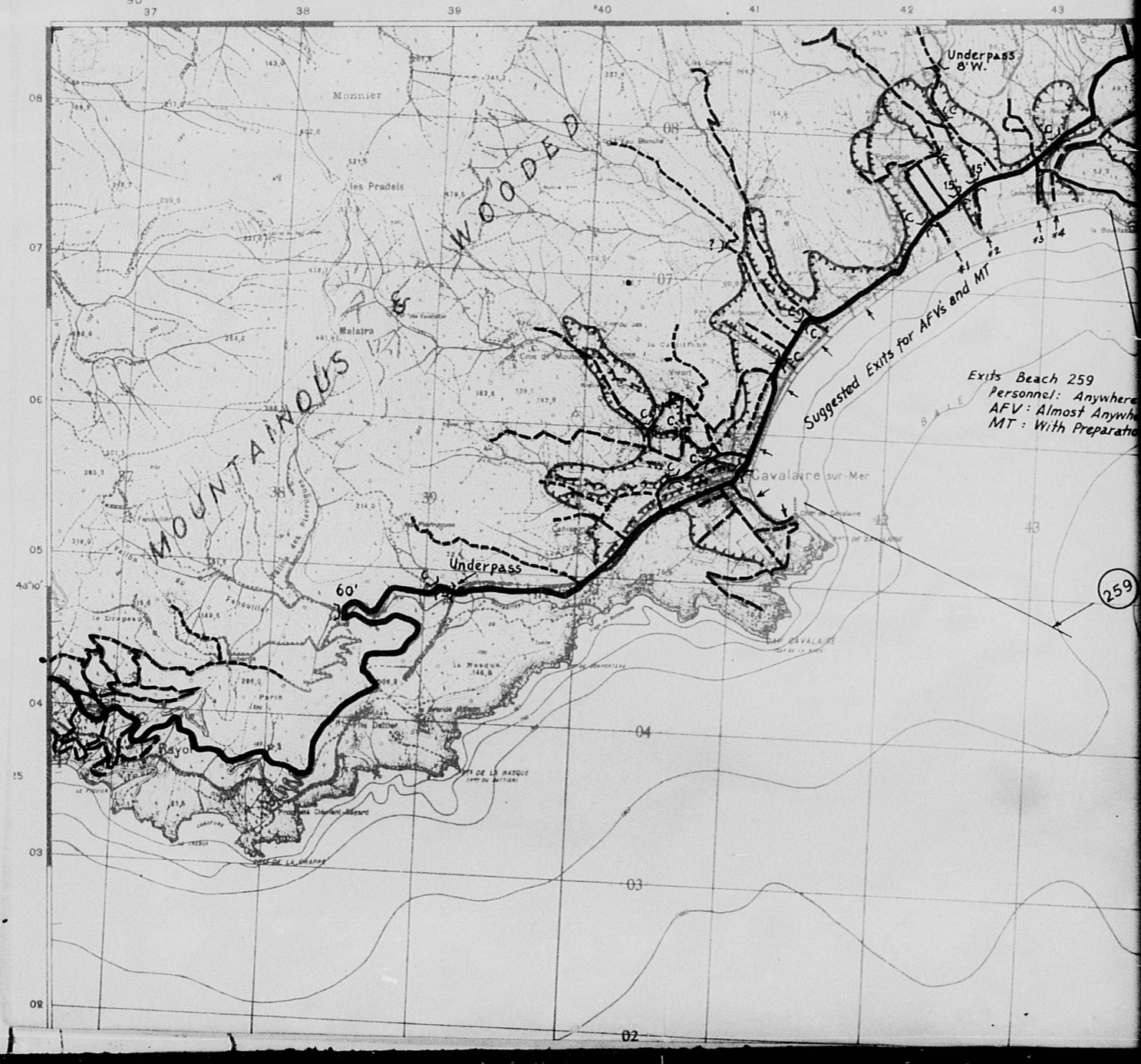
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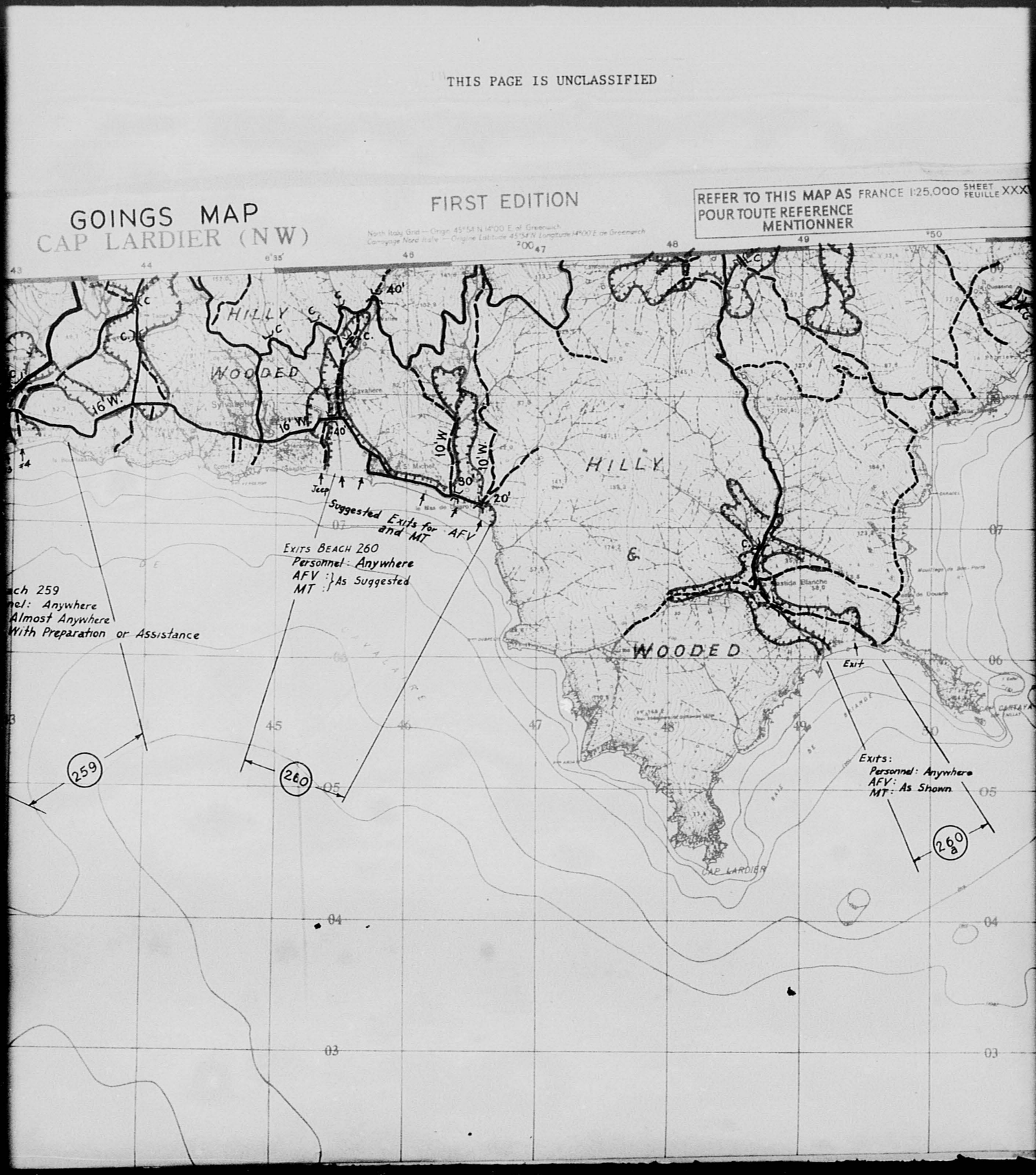
French Lambert Zone III Grid — Origin 44°06'N, 2°20'13.95"E. of Greenwich.
Carroyage Lambert Français Zone III — Origine 49°N. Méridienne de Paris. 95



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France 1:25000 sheet XXXV·46 162

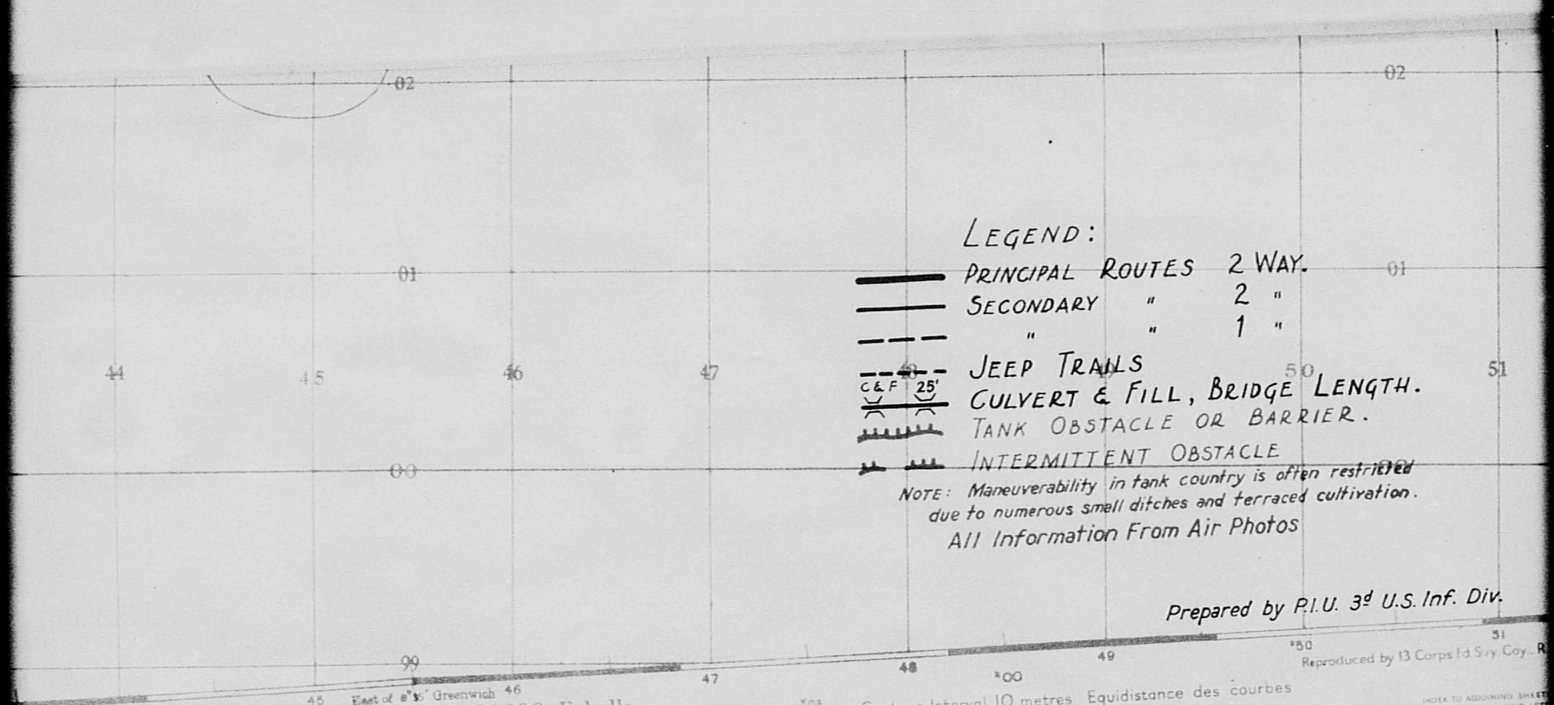
A.F. 4512

The Grid on this map is the French Lambert Zone III Grid.
Le carroyage porté sur cette feuille correspond au système de projection Lambert Zone III

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East of 8°36' Greenwich

Scale 1:25,000 Echelle

Contour Interval 10 metres Equidistance des courbes

RELIABILITY DIAGRAM

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
EXEMPLE D'UN POINT DONNE DU CARROYAGE SUR CETTE CARTE

POINT LES BROUIS

LETTER	U	LETTRE	U
EAST / EST			
Easting (write figures applying to the North or South lines) / Est (écrire les chiffres se rapportant aux lignes Nord ou Sud)	47	6	476
Easting (write figures applying to the East or West lines) / Est (écrire les chiffres se rapportant aux lignes Est ou Ouest)			

NORTH	NORD	
Take the next edge to south and write figures applicable to the East or West margin	Partir du bord sud du carré et inscrire les chiffres en face de la ligne Est ou Ouest	06
Estimate tenths North or West	Calculer les dixièmes vers le Nord ou l'Ouest	061

REFERENCE to nearest 100m: 476061

COORDONNEES valeur approchée aux 100m

Unit	metre	Square	1,000m
Unité	mètre	Carré	1000m
Nearest 1,000m reference on this grid			500 km
Prendre garde que les mêtres soient exprimés			500 km

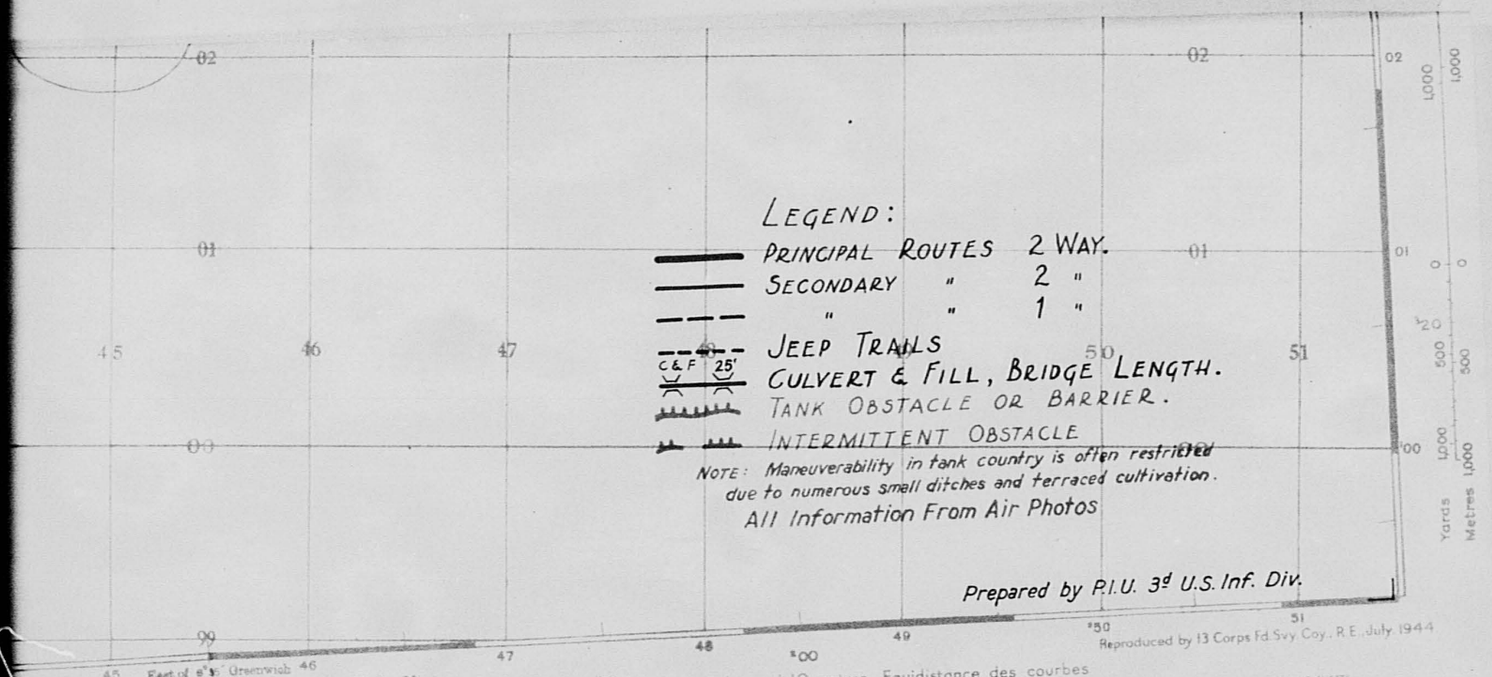
The Grid ticks in the margin refer to the North Italy Grid.
Les amorces de la marge correspondent au système de projection Nord Italie

1588

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Scale 1:25,000 Echelle

Contour Interval 10 metres Equidistance des courbes

RELIABILITY DIAGRAM

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
EXEMPLE D'UN POINT DONNE DU CARROYAGE SUR CETTE CARTE

LETTER	U	LETTRE	U	POINT	LES BROUIS
EAST		EST		NORTH	NORD
	47				06
	6				1
Estimate tenths Eastings		Estimer les dixièmes vers l'est	(E)	Estimate tenths Northings	Calculer les dixièmes vers le nord 061
			476		

DIFFERENCE to nearest 100m U 476 061 — COORDONNEES valeur approchée aux 100 m

Unit: metre, Square, 1000m — Units: yards, Carré, 1000m

Nearest whole reference on the grid ... 500 km — Prendre garde que les mêmes coordonnées peuvent se rapporter à partir d'une distance de ... 500 km

The Grid ticks in the margin refer to the North Italy Grid
Les amorces de la marge correspondent au système de projection Nord Italie

CONVERGENCE IS GIVEN FOR CENTRES OF W.E. SHEET LINES
LA CONVERGENCE EST DONNEE POUR LES CENTRES DES BORDS EST ET OUEST DES FEUILLES
MAGNETIC DECLINATION JAN 1944 AT CENTRE OF SHEET
6° 16 W FROM TRUE NORTH
5° 11 W FROM GRID NORTH
DECLINAISON MAGNETIQUE JAN 1944 AU MILIEU DE LA FEUILLE
DU NORD GEOGRAPHIQUE (NG) 6°16 W
DU NORD LAMBERT (NL) 5° 11 W
ANNUAL CHANGE E EASTERLY
VARIATION ANNUELLE E VERS L'EST

INDEX TO ADJOINING SHEETS AND INCIDENCE OF GRID LETTERS
TABLEAU D'ASSEMBLAGE DES FEUILLES ET POSITION RELATIVE DES LETTRES DU CARROYAGE

CAP LARDIER 1/42 Firme
NA30°-E6/4 5 11

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T O P - S E C R E T

BIGOT - ANVIL
* * * * * * * * * * * * * * * *
* S E C R E T *
AUTH: CG,3D INF DIV (REINF)
*INIT: *
*DATE: 1 August 1944 *
* * * * * * * * * * * * * * * *

HQ 3D INF DIV (REINF)
NAPLES, ITALY
1 August 1944

Addenda No 1
to
Appendix No 2
to
Annex No 2
to
Field Order No 12

EXACT COORDINATES OF BEACHES

RED: Left 417068, Center 424073, Right, 433076; GREEN: Left 454074, Center 461073, Right 467077; YELLOW: Left 514107, Center 513118, Right 513128

O'DANIEL
COMDG

OFFICIAL:

WILSON
G-2

RESTRICTED
T O P - S E C R E T

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T O P S E C R E T BIGOT - ANVIL

Appendix No 2
to
Annex No 2
to
Field Order No 12

TERRAIN APPRECIATION

OF AREA

CAVALAIRE-SUR-MER - ST. TROPEZ

AND INLAND

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BIGOT-ANVIL

TOP SECRET

BIGOT - ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

25 July 1944

TACTICAL STUDY OF TERRAIN

1. Terrain

a. Terrain:

(1) Map Reference: GSGS 4249, 1/100,000; GSGS 4471, 1/50,000 and GSGS 4411, 1/25,000.

(2) Purpose: to study the effect of terrain on operations to establish a bridgehead in the vicinity of CAVALAIRE-SUR-MER 410057 - ST. TROPEZ 490170.

(3) General Topography:

(a) The terrain consists of a low mountainous area, with a few small plains where the large streams enter the bays. The mountains generally rise directly behind the beaches to an altitude of 1000'to 1500'in elevation. In the western sector there is a small plain about 3 miles long and 2 miles wide southeast of BORMES 256025. The largest plain, about 6 miles long and 2 miles wide, lies at the head of the GOLFE de ST. TROPEZ. The peninsula bounded by the GOLFE de ST. TROPEZ and the bay of CAVALAIRE is generally a low plain, which rises from sea level to an elevation of 300'. The coastline is irregular with rocky headlands and small beaches at the head of sheltered coves.

(b) Drainage -- The drainage is generally south to the sea and north to the LA MOLE and GRANDE rivers. Drainage is good due to the slope of the terrain and the porous soil. No surface water will be found.

(c) Ridge Systems -- there are two ridge lines in the area one of which rises between the coastline and LA MOLE RIVER VALLEY and runs generally northeast from BORMES. The other ridge line lies about eight miles inland between the LA MOLE RIVER VALLEY and the TOULON - ST. RAPHAEL CORRIDOR. The valleys run generally southwest - northeast, and are narrow with little flood land.

(d) Communications:

i Railroads: a single track narrow-gauge line runs from TOULON along the coast to CAVALAIRE-SUR-MER 410057 to ST. TROPEZ 490170. A small branch of this same railroad runs to COGOLIN 407145. The main railroad from TOULON to ST. RAPHAEL runs through the TOULON - ST. RAPHAEL CORRIDOR which is about 14 miles inland. This is a double-tracked, standard gauge railroad.

ii Roads: There is a limited network of good roads in the beachhead area. The principle roads are: Route 98 from TOULON to COGOLIN 407145 to ST. RAPHAEL 586516. This is a good two-way tar macadam or surface treated macadam road. Route 559 turns off highway 98 about two miles west of BORMES 256025 and follows the coastline to a point one mile northeast of CAVALIARE-SUR-MER, where it goes up the valley to LA CROIX 438097 and ST. TROPEZ. This is a good 18' tar macadam road. Route 558 is a good surfaced road running north from COGOLIN 407145 through GRIMAUD 395168

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to LA GARDE FREINET 351215. This road has many sharp bends and is only 12' to 16' wide. At 288257 is a narrow bridge only eleven feet wide. Route 110 from GRIMAUD 395168 to COLLOBRIERES 225120 is a one way road with numerous grades and sharp curves. This road has many culverts and places for possible demolitions. The road is in poor condition. The secondary road from COLLOBRIERES 225120 North to LES MAYONS 261206 is a narrow one way road with many sharp curves and steep grades. This road is in poor condition. The secondary road running North from beach 259 through SYLVABELLE 448078 RAMATUELLE 473107 to the COGOLIN - ST. TROPEZ road, is a metalled two-way road with many sharp bends.

(e) Forest and Swamps: The mountains have rocky outcropping and thin soil with sparse vegetation. The lower mountain slopes are usually terraced and cultivated primarily to vineyards and olive groves. The mountain slopes are covered with scattered woods ~~of evergreen~~, oak, maple, and holly. The slopes facing South usually are covered with scrub-growth garregue.

(f) Obstacles:

i The lack of good roads for avenues of advance inland.

ii The difficulty of widespread deployment of vehicles in the mountain areas.

iii Ease with which the enemy can select defensive lines.

iv Because of mountainous terrain the use of tanks will be limited.

v The large number of small bridges and culverts in the roads which can be easily demolished.

(g) Concealment and Cover: Generally the terrain affords sufficient cover for infantry troops. In the mountainous region difficulty in digging slit trenches and fox holes will be found. In the lower valleys concealment for vehicles will be sufficient in the grape vineyards and olive orchards. As the traffic will be channelized in the valleys concealment from the air will be difficult as deployment off the roads will be limited.

(h) Observation: Rocky highlands along the coast will offer commanding views of the seacoast and the peninsula between the BAIE DE CAVALAIRE and GOLFE DE ST. TROPEZ. In the mountains observation will be limited as the valleys are winding and prominences ~~along the valley~~ walls do not provide long distance views.

(i) Critical Terrain Features:

CAPE LARDIER 483044
CAPE ST. TROPEZ 538168
CAPE BENAT 283960
MOUNT LES PRADEL (1631 ft) 383076
MOUNT BISCARTE (1495 ft) 345055
MOUNT LES SAUVETTE (2410 ft) 246163
HILL 325 464112

(j) Tactical Effect of Terrain

i The terrain features affecting the first phase of operation are the hill masses along the coast which will provide excellent observation of the beaches and low land to the rear of the beaches. Mount LES PRADEL 383076 and Hill 325 464112

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which overlooks all of the beaches must be taken before moving inland. Parallel to and approximately two miles inland is another ridge of mountains. Between these two ridges is the LA MOLE VALLEY which narrows to 600 yards about five miles inland. The use of armor in the valley would be limited.

ii Roads. Highway 98 and 559 are both capable of handling all types of traffic, although due to their positions at the base of high hills with many small bridges and culverts they can be easily blocked by demolitions. There are no main roads leading over the CHAINE DES MAURES. There is a secondary road running E and W through the mountains from GRIMAUD to COLLOBRIERES. This road is in poor condition and would take only limited traffic. Another two-way metalled secondary road runs from the east end of beach 259 to SYLVABELLE to RAMATUELLE to the ST. TROPEZ - COGOLIN road.

iii While certain areas, as mentioned, prevent cross country movement of vehicles, there are no places that are impassable for dismounted troops.

iv The eastern sector is the better part for the use of armor and maneuver.

v There are no rivers or streams in the immediate area which would constitute a major obstacle.

(k) Ports and Towns

i Port of SAINT TROPEZ

This small port is about 38 miles East by Northeast of TOULON on the south shore of the GOLFE DE ST TROPEZ. The harbor is on the North side of the town, with its entrance from the West.

The harbor is a small cove which has an average width of 200 yards and indents the coast about 250 yards in a southerly direction. From the western side a mole extends northward about 130 feet. Forming the north side of the harbor is a mole extending westward about 950 feet. The harbor entrance is about 150 feet wide. The inner sides of the North and West moles are quayed and quays extend around the harbor.

The total quayage at the port is approximately 2800 feet of which about 50% provides berthage with depths of 10 to 16 feet as follows:

Total Quayage (feet)	Berthing Spaces (feet)	Depth of Water (feet)	Remarks
130 + 360 + 460	350	13 - 16	
100 + 80 + 50	230	2 - 13	Depth along North side (80 ft) 2 to 13 feet; elsewhere 13 feet.
325	325	13	
210	210	13	
280	200	0 - 13	
100	50	0 - 4	
10 + 100 + 100	4 - 16		
325 - 200	500	4 - 12	Southern section (325 feet) 4 - 10 feet elsewhere 10 - 12 feet

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The west quay is served by two narrow-gauge railroad lines which end at quayside. Motor trucks would have access to all wharves. There are no cranes in the port.

The capacity of the port is estimated to be 13,750 short tons of general cargo per month at vessel berths assuming an 8 hour day.

On the southwestern side of ANSE DES CANOUBIES, there is an old cable factory, with a timber pier 475 feet long, 10 feet wide and has a depth of 8 feet along both sides for nearly 150 feet ashore from the head.

ST. TROPEZ is a small coastal port of about 4300 people (1928). The main part of the built up area is south of the harbor. Directly east of the town about 600 yards is the walled citadel of St. Tropez sitting at the top of the hill.

There is a good first class two lane highway running westward from the city along the south side of the GOLFE DE ST. TROPEZ. The streets in the town are sufficiently wide to permit free movement of motor traffic.

ii COGOLIN 407145. This is a small town of 2233 people as of the 1927 census. The town is located at the upper end of the large valley West of the GOLFE DE SAINT TROPEZ. The town proper is located on the end of a small steep hill. The main highway goes through the town at the foot of the hill. This town is supplied by water from a water main which links COGOLIN, GRIMAUD, and ST. TROPEZ. The water comes from some infiltration wells in the valley between COGOLIN and GRIMAUD. The water is then pumped to small reservoirs in each town.

iii GRIMAUD 395168. The small town of GRIMAUD had a population of 1126 in 1927. It is located in the northwest side of the large valley West of the GOLFE DE ST. TROPEZ. The surrounding countryside is mostly small cultivated farms and vineyards. There is a good first class two-way highway running South from the town to the neighboring town of COGOLIN. The city is supplied with water by the GRIMAUD - COGOLIN - ST. TROPEZ Water System. The normal rainfall for these three towns is approximately 25 inches per year.

NOTE: See attached overlay on roads and trails.

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BIGOT-ANVIL

APPENDIX NO 3
TO
ANNEX NO 2
TO
FIELD ORDER NO 12

BEACH REPORTS

1. Beach No 259 .....BAIE DE CAVALAIRE (West)
   434055 - 434076

2. Beach No 260 .....BAIE DE CAVALAIRE (East)
   434074 - 467070

3. Beach No 260A .....BAIE DE PRIANDE
   492060 - 496061

4. Beach No 261 .....BAIE DE PAMPELONNE
   517105 - 518144

NOTE: For definite locations of beach defences and artillery see Fixed Defence Collation Maps.

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TOP SECRET BIGOT - ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

25 July 1944

BEACH REPORTS

Beach No 259

Name: BAIE DE CAVALAIRE (West)

GSGS Sheet No and Co-ordinates: 4411 - XXXV-46, 1 & 2 CAP LARDIER N W
411055 - 404076

Length (yards): 3,900 Width (yards): 20 - 50

I. Navy Remarks:

Approach:
The beach is located on the west and northwest shore of the BAIE DE CAVALAIRE, a C-shaped bay, open to the South. The Bay is 4 miles wide at its entrance between CAP DE CAVALAIRE on the west, and CAP LARDIER on the East. Once inside the Bay, the beach can be located by the town of CAVALAIRE SUR MER which stands directly behind the southwest end of the beach.

There is anchorage anywhere off the beach in 6 fathoms at 400 yards offshore; bottom of mud and weed; good holding ground.

Hydrographic Features:
Charted underwater gradient varies from 1:50 in the west to 1:30 at the northeastern end.

There is a sandbar about 75 yards off the southwestern sector of the beach. Depth over this bar unknown, but may be about 3 or 4 feet in most places. No bar exits off the center and northeast portions of the beach and they are entirely clear of approach. The beach is exposed to the Southeast.

A jetty 225 feet long extends northward from POINTE DE CAVALAIRE (at the south end of the beach). This jetty is quayed on its inner side, and has depths of 9 feet at its outer end, but shallowing quickly to three feet alongside the inner half.

Suitability for Craft:
All craft and LST in the center and northeast. Pontoons for LCT and LST in the southern sector.

Maintenance:
The beach is suitable for maintenance.

Description of Beach:
Sand beach backed by narrow belt of tree-covered dunes, behind which is the coast road and railway.

II. Army Remarks:
Exits suitable for personnel anywhere, AFV's probably anywhere, and MT after preparation.

In the southwestern half the beach is backed by wooded slopes and the outskirts of the village of CAVALAIRE. In the eastern half the hinterland consists of cultivated fields. From 411057, where the road crosses the railway by a level crossing, to 413063 (520 yards) the road is immediately at the back of the light railway and at a distance of about 40 yards from the back of the beach. From 413063 to 420072 the road is between 100 and

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200 yards from the beach. At 420072 where the railway turns northward and crosses the road the latter strikes inland so that at the eastern end it is about 300 to 400 yards from the beach. The railway is on a low embankment between 413062 and 416067, and south of 413062 the beach rises rather steeply to it.

Between 411055 and 411057 a minor road runs amidst a belt of trees roughly parallel to, and almost directly behind, the beach. There appears to be a good exit to it by road at about 412055. MT might need assistance across the sand. From 411057 to 413 AFV's should be able to gain the coast road without difficulty though the railway is an obstacle. Preparation would be required for MT. From 413063 to 420072 the railway is tree-lined in several places and there are clumps of trees between it and the coast road. Exits could be constructed across the railway and cultivated land to the coast road. In the remainder of the beach, the dunes are planted with tall trees in most places.

There are four exits in this area and, taking them from west to east, they may be described as follows:

1. At 424073 a narrow lane leads from the back of the dunes to the coast road. It could be extended down to the beach. The dunes and trees are obstacles.
2. At 426074 a track leads from the back of the dunes up the left bank of a stream. Development would be necessary for MT.
3. At 429075 a wide road leads from the dunes to the coast road. There appears to be a circular platform, in poor condition, about 50 yards in diameter at its seaward end and preparation would probably be necessary to enable MT and AFV's to gain access to it from the beach.
4. At 431076 a narrow road leads from the back of the dunes to ST. CROIX 4309. It has connection with exit (3) and with a minor coast road leading to ST. MICHEL 4507. Development would be necessary across the dunes and between tall trees before MT, and probably AFV's, could exit. Ground photographs Nos 27 - 133 in ISIS.

III. Defences:

1. General:
This beach is moderately defended.

2. Offshore (including underwater obstacles):

a. Offshore the BAIE DE CAVALAIRE is reported mined between POINTE DE CAVALAIRE and "LA BOUILLABAISSE RESTAURANT (?)" at a maximum depth of 10 fathoms.

3. Minor Beach Defenses:

Three casements, 8 definite pillboxes, 1 probable pillbox, and at least 17 MGs cover this entire beach with their fields of fire.

In the western quarter of the beach is a battery of 2 light AA guns and at its western extremity are 2 three-gun light AA batteries. A searchlight is reported at about the center of the beach.

There is also 1 fixed single-gun at western end of beach.

Beach mines are reported along the eastern three-fourths of the beach and in several places at the western end. Some of these are confirmed from aerial photographs. Barbed wire extends 800 yards parallel to and in center of beach and at western end of beach from 411057 to 413063.

4. Defenses behind Beach:

2 MG nests about 900 yards inland from the eastern sector and a 2-gun LAA battery about 1300 yards inland.

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5. Artillery capable of Firing on Approach to the Beach:

Description	Height in Yds.	Coordinates	Remarks
4 gun CD Btry	108	Z-27579584	
4 gun CD Btry (3 unocc)	126	U-27960184	Btry faces SE
4 gun CD Btry (3 unocc)	148	U-27810186	
2 gun CD Btry		U-440076	Sited to fire along entire beach Position wired in
4 gun CD Btry	76	U-44771072	
2 gun Field Btry		U-225017	
2 gun Field Btry		U-229020	
4 gun Med CD Btry	52	U-23320125	
4 gun Med CD Btry	55	U-237017	On hill SW of BORDES. Sited to fire SE.
4 gun CD Btry	68	U-23030311	
4 gun Field Btry		U-238036	

6. Enemy Troops in Immediate Area:
2 Cos of approximately 100.

Beach No. 260

Name: BAIE DE CAVALAIRE (East Beach)

GSGS Sheet No and Coordinates: 4411 - XXXV-46, 1 & 2 CAP LARDIER (N.W.)
454074 - 467070

Length (yards): 1,070 Width (yards): 30

I. Navy Remarks:

Approach:
The beach is located on the northeast shore of the BAIE DE CAVALAIRE, a C-shaped bay open to the South. The bay is 4 miles wide at its entrance between CAP DE CAVALAIRE on the West and CAP LARDIER on the East. Once inside the bay, the beach may be identified by POINTE VERGERON, high, cliffy and rocky, close west of the beach, and POINTE DUREVIL, 1/2 mile southeast of the beach.

There is anchorage anywhere 400 yards off the beach in 5 to 6 fathoms; mud and weed bottom with some rocks.

Hydrographic Features:
The charted gradient is 1:85 from 10 feet deep to shore. A rock bottom off the beach is charted and confirmed by air photographs. At several points along the beach there are patches of flat rock outcrops just below the waterline, and although they do not appear to project up from the sea bed, the fact they are in depths of only 2 or 3 feet might make them dangerous to craft. After reconnaissance, craft could beach in the clear sand areas between rocky patches, notably in the east sector where the easternmost 350 yards of beach are clear of approach. The beach is unsuitable for night assault, unless it be on a small scale with landings restricted to the east end of the beach only (350 yards).

West of the rock outcrop that forms the western limit of the beach there is a short sand beach considerably fouled by offlying submerged rock, but it might be used in conjunction with the main beach after a careful reconnaissance.

Suitability for Craft:
All types of craft and LST, after reconnaissance.

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Maintenance:
The beach has limited value for maintenance.

Description of Beach:
Sand beach with shell fragments and with some flat rock outcrops at the waterline. Backed by a low, easily accessible coastline that is cut by several streams. The beach is flanked on the west end by a rocky outcrop and on the east end by low cliffs.

II. Army Remarks:
Exits are suitable for personnel anywhere, AFV's by minor road, and MT's after preparation.

Between 454074 and 457074 there is an area of flat cultivated land behind the beach and similarly between 464072 and 466072. From the remainder of the beach wooded country rises steeply and there are trees almost on the beach itself in this sector.

It is reported that there is a sand embankment at the back of the beach 5 feet high.

A minor road parallels the beach (varying from 30 to 80 yards from the back of the beach) from ST. MICHEL 459074 southeastwards to about 466072 where it appears to end in a cul de sac. It is tree lined for most of its length and is walled in places. It connects at its western end with a road to CAVALIERE 4508. The wall is an obstacle to MT and AFV's, but is is not clear from the photographs whether it runs along the whole length of the road. In any event slight preparation would be necessary to enable MT to surmount the sand embankment. At 457474, there is a good exit by a narrow road, walled near the seaward end, which connects with the road to CAVALIERE and the road to CAVALAIRE SUR MER 4105. MT may need assistance over the soft sand at the seaward end. At 455474 a narrow tree lined "walk" leads from the dunes direct to CAVALIERE; it would need widening before heavy MT or AFV's could use it. Ground photograph ISIS 132.

III. Defenses:

1. General:
This beach is lightly defended.

2. Offshore (including underwater obstacles):

3. Minor Beach Defenses:
MGS are observed on this beach but probably do not adequately cover the western portion with their fields of fire.

One probable casement and a MG are at the eastern extremity. One probable pillbox and one casement cover the western end of the beach and a pillbox about 500 yards to the west of the beach could fire on its approaches.

No barbed wire is observed on this beach.

Beach mines are reported along the entire length, a field 300 yards long on the beach in its center; one of 100 yards on the western end is about 100 - 200 yards back from the water.

4. Defenses Behind Beach:
Probable Minefield in rear of beach. Also a probable pillbox about 800 yards inland.

5. Artillery Capable of Firing on Approach to the Beach:

Description	Height in Yards	Coordinates	Remarks
2 gun AA/CD Btry (occup)		U-498080	
4 gun CD Btry (occup)	76	U-44771072	
1 gun CD		U-471061	Fixed position. Could fire on approach but probably not on beach
4 gun Field Btry (occup)	82	U-238036	Under construction. Btry facing SE.

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Maintenance:
The beach has limited value for maintenance.

Description of Beach:
Sand beach with shell fragments and with some flat rock outcrops at the waterline. Backed by a low, easily accessible coastline that is cut by several streams. The beach is flanked on the west end by a rocky outcrop and on the east end by low cliffs.

II. Army Remarks:
Exits are suitable for personnel anywhere, AFV's by minor road, and MT's after preparation.

Between 454074 and 457074 there is an area of flat cultivated land behind the beach and similarly between 464072 and 466072. From the remainder of the beach wooded country rises steeply and there are trees almost on the beach itself in this sector.

It is reported that there is a sand embankment at the back of the beach 5 feet high.

A minor road parallels the beach (varying from 30 to 80 yards from the back of the beach) from ST. MICHEL 459074 southeastwards to about 466072 where it appears to end in a cul de sac. It is tree lined for most of its length and is walled in places. It connects at its western end with a road to CAVALIERE 4508. The wall is an obstacle to MT and AFV's, but is is not clear from the photographs whether it runs along the whole length of the road. In any event slight preparation would be necessary to enable MT to surmount the sand embankment. At 457474, there is a good exit by a narrow road, walled near the seaward end, which connects with the road to CAVALIERE and the road to CAVALAIRE SUR MER 4105. MT may need assistance over the soft sand at the seaward end. At 455474 a narrow tree lined "walk" leads from the dunes direct to CAVALIERE; it would need widening before heavy MT or AFV's could use it. Ground photograph ISIS 132.

III. Defenses:

1. General:
This beach is lightly defended.

2. Offshore (including underwater obstacles):

3. Minor Beach Defenses:
MGs are observed on this beach but probably do not adequately cover the western portion with their fields of fire.

One probable casement and a MG are at the eastern extremity. One probable pillbox and one casement cover the western end of the beach and a pillbox about 500 yards to the west of the beach could fire on its approaches.

No barbed wire is observed on this beach.

Beach mines are reported along the entire length, a field 300 yards long on the beach in its center; one of 100 yards on the western end is about 100 - 200 yards back from the water.

4. Defenses Behind Beach:
Probable minefield in rear of beach. Also a probable pillbox about 800 yards inland.

5. Artillery Capable of Firing on Approach to the Beach:

Description	Height in Yards	Coordinates	Remarks
2 gun AA/CD Btry (occup)		U-490030	
4 gun CD Btry (occup)	76	U-4477072	
1 gun CD		U-471061	Fixed position. Could fire on approach but probably not on beach
4 gun Field Btry (occup)	82	U-230036	Under construction. Btry facing SE.

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6. Enemy Troops in Immediate Area:
2 platoons of approximately 70.

Beach No. 260-A

Name: BAIE DE BRIANDE

GSGS Sheet No. and Coordinates: 4411 - XXXV - 46 1 & 2 CAP LARDIER (MV)
492060 - 496061

Length (yards): 500 Width (yards): 30

I. Navy Remarks:

Approach:
Located on the N shore of the BAIE DE BRIANDE, the beach may be identified by CAP LARDIER, a high and cliffy rock cape 2,000 yards SW of the beach, and CAP TAILLAT, a rocky promontory, barren and gray, 1,000 yards SE of the beach.

The bay affords anchorage in depths from 5 to 10 fathoms, 400 yards offshore, sheltered from the Mistral, but exposed to the south.

When approaching the BAIE DE BRIANDE from the Eastward, CAP TAILLAT should be given a berth of 1/2 mile since submerged rocks extend southeastward from it.

Hydrographic Features:
Charted underwater gradient 1:30 from 12 feet deep to shore.

The approach to the easternmost 120 yards of beach is fouled by submerged rock, close inshore. The extreme W end of the beach is fronted by a rocky patch and rocks extend 100 yards seaward from the W flank. There are no other obstructions to the seaward approach. The useable frontage of the beach for landing is 360 yards. The beach is 500 yards long over-all, but 120 yards at the East end and 20 yards at the West end are fouled by offlying rocks as cited above.

Suitability for Craft:
All craft and LST.

Maintenance:
The beach is not suitable for maintenance.

Description of Beach:
A shingle beach backed by a flat narrow valley through which runs a small stream entering the sea near the W end of the beach. The beach is bounded at either end by steep, rocky hills that are mostly tree covered. There is a clump of tall trees back of the center of the beach.

II. Army Remarks:
Exits suitable for personnel anywhere, MT's after preparation, and possibly AFV's after preparation, but the lane is very narrow and tortuous.

The valley is cultivated with vines. A narrow lane runs W from a building in the trees at the extreme E end of the beach and then runs up the valley to join a road to RAMATUELLE. Two tracks run from the eastern half of the beach up to this lane (about 130 yards).

III. Defenses:

1. General:
This beach is moderately defended.

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2. Offshore (including underwater obstacles):

3. Minor Beach Defenses:

One probable casement and 2 pillboxes, one of which is on the eastern flank, cover this beach with their fields of fire.

At least 4 HMGs can fire on the beach.

Just beyond the eastern end of this beach is a 3-gun LAA Btry that can cover the beach in its field of fire.

No beach mines observed or reported on this beach.

A single strand of barbed wire is along the entire length of the beach.

4. Defenses Behind Beach:

A 3-gun LAA Btry is located behind the eastern end of the beach.

About 200 yards behind the beach is an AT ditch 100 yards long and 5 yards wide.

5. Artillery Capable of Firing on Approach to the Beach:

Description	Height in Yds	Coordinates	Remarks
4-gun CD Btry (occup)	76	U-44771072	

6. Enemy Troops in Immediate Area:

None.

Beach No. 261

Name: BAIE DE PAMPELONNE

GSGS Sheet No. and Coordinates: 4411 - XXXV-45 7 ST. TROPEZ (S.E.)
517105 - 518144

Length (yards): 4,500 Width (yards): 15

I. Navy Remarks:

Approach:

The BAIE DE PAMPELONNE lies between the rocky headlands of CAP DU PINET in the North and POINTE DE LA BONNE TERRASSE in the South. The outer approach is clear from the East. The beach can be identified by the lighthouse on CAP CAMERAT.

There is anchorage 400 to 600 yards offshore of the beach in 6 fathoms; fine sand bottom; good holding ground.

Hydrographic Features:

Underwater gradient is about 1:55 over most of the beach except in the North sector where it steepens to 1:40.

Except for the northernmost 700 yards, the entire beach is fronted by an irregular shaped sandbar 120 yards offshore for the most part, but only 40 yards off the beach at some points. There appears to be about 6 feet of water over the outer portions of the bar but likely only about 2 or 3 feet over the inner points. Off the center and south sectors of the beach a second bar lies 250 yards offshore, but gradient study indicates that depths over this bar are sufficient to clear all craft and LST's.

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There are submerged rocky patches, 50 yards offshore, fronting the northernmost 200 yards of the beach, and these extend around the rocky headland flanking the north end of the beach. A large rock (SECHE DE SAIAGRUE) is charted 140 yards off the center of the beach with 1 foot of water over it, and this is confirmed by air photographs. There are submerged rocks just off the south flank of the beach.

Suitability for Craft:

LCA, LCVP, LCI and LCT (5) anywhere, although landings may be wet in a few places if craft happen to hit one of the inshore points of the sandbar. Larger LCT's and LST's require pontoons in the South and center sectors but can use all but the northernmost 200 yards of the north sector. Reconnaissance may show some of the submerged rock off this northernmost 200 yards to be no danger, in which case the entire north sector would be usable by LST.

Maintenance:

The beach is suitable for maintenance.

Description of Beach:

A soft fine sand beach backed by a narrow belt of low dunes, beyond which the terrain is low and flat at either end of the beach, but wooded and steeply rising behind the center. Several small streams cut the beach. Ground Photographs ISIS, Beach Photographs 4096 (J) 50, No. 135.

II. Army Remarks:

Exits are suitable for personnel but preparation would be required for both AFV and MT.

The beach is backed by a flat plain at each end with wooded hills in the center. The plains are cultivated with vines and there are several drainage ditches and wind-break hedges.

Several small streams flow over the beach and the ground close behind the dunes appears to be soft or even marshy. All exits involve crossing the belt of blown sand or dune, the width of which is usually 110 yards. AFV's as well as MT would probably need assistance over this obstacle and all exits would require development at their seaward ends. Taking them from south to north the best exits are:

1. At about 516105 where a narrow lane curves down to some scrub (about 100 yards from the waterline). It connects with the RAMATUELLE - ST. TROPEZ road at 493104. The bridge at 509105 by which the lane crosses the stream RAU DU GROS VALAT is only a little better than a footbridge.

2. At 511120 where a narrow lane connects a group of buildings with exit 3 (see below). It runs parallel to the beach and about 200 yards from the waterline. The dunes and some trees are obstacles.

3. At 512123 where a road, connecting with the RAMATUELLE-ST. TROPEZ road, comes down to the dunes (100 yards from the waterline). There appears to be much weed on the beach and a small stream flows over it at this point. Development would be required over rough dunes and through scrub.

4. At 512125 where a narrow lane, connecting with exit 3 at 507124, comes down to the back of the dunes. Development would be necessary across the dunes and between some trees.

5. At 510127 a lane leads from a farm and connects with the ST. TROPEZ road. An exit could be prepared across the dunes and cultivated land to the farm (a distance of about 340 yards). There may be some marshy land directly behind the dunes.

6. At 513139 a track leads from the dunes to a farm and further inland to ST. ANE CHATEAU (5014)

7. At 514142 a track leads inland from the left bank of a small stream to ST. TROPEZ. It is about 140 yards from the waterline and there are some trees directly behind the dunes at this point.

8. At 518144 a narrow lane comes down from LA CAPILLA 5114 to the beach. The trees here are obstacles.

III. Defenses

1. General

This beach is moderately defended.

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2. Offshore (including underwater obstacles)

a. A single row of possible wooden stakes or piles has been observed off the northern sector of the beach lying in a varying line some 100 - 195 feet offshore in approximately 5 - 6 feet of water. These possible stakes or piles are spaced 17 - 18 feet apart. On 28 May these obstacles extended along the shore for about 380 yards but by 14 June they extended 1190 yards along the shore. There is some indication that the northernmost 300 yards of these obstacles are tetrahedra or concrete blocks 400 yards offshore and spaced approximately 4 yards apart.

b. Offshore, mines are reported at a maximum depth of 5 fathoms, running generally from MOUILLAGE DE L. BONNE TERRASSE U-515105 to U-519143.

3. Minor Beach Defenses

There are 4 definite pillboxes, two on the north flank firing along the beach; one on the south flank and one near the center of this beach, but they probably do not cover this entire beach with their fields of fire. Two other probable pillboxes appear to be located in the center of the beach. About 7 MGs are along the north half of the beach. One 13-mm LAA gun is on the north flank of the beach and a LAA Btry on the south flank. There is a 4-gun light CD battery on the beach near its north end. Two probable pill boxes at the South end.

The strongpoint at 5125245 is enclosed by a double apron wire fence 2.5 m wide and 1.5 m high. Forward edge of fence within few meters of water's edge.

There is a triple barbed wire along almost the entire beach.

Beach mines are reported along the entire beach in front of the mines.

4. Defenses behind Beach

Italian minefield in vineyards behind north end of beach. An A/T gun and road blocks 400 - 500 yards behind center of beach.

5. Artillery capable of firing on approach to the Beach

Description	Height in yds	Coordinates	Remarks
4 gun light CD Btry		U-515141	Probable only.
1 - 105-mm CD Gun		U-513128	Fixed position in center of beach.
4 gun CD Btry (occup)	51	U-441441886	

6. Enemy Troops in immediate Area

1 Bn of approximately 400

7. Underwater Obstacles as of 14 June 1944

a. Type of Obstacles
(1) Possible wooden stakes or piles
(a) A single craft has been observed laying these obstacles.
(b) Trees cut and trimmed lying on beach.
(c) No other supply observed in immediate area.

b. Number of Rows
(1) One

c. Location
(1) Off the northern sector of the beach and lying in a varying line some 100 ft to 195 ft offshore in approx 5 - 6 ft of water; these possible stakes or piles are spaced 17 - 18 ft apart.

d. Activity
(1) The actual laying of the obstacles is seen from photographic reconnaissance to have begun sometime between the 21st and 28th of May 1944.
(2) On 28th of May 1944 the obstacles were seen to extend some 380 yds along the shore. On 14th June 1944, 17 days later, these obstacles covered a distance of 1190 yards.

NOTE: Incomplete photographic cover makes it difficult to accurately judge the rate of laying of these obstacl

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SUPPLEMENT TO COAST DEFENSE & DUAL PURPOSE BATTERIES FROM ANPM #13, II & IIA REVISED 2 JULY 1944

Guns Capable of Fire on Beach #259. In addition to list of 4 July 1944.

Description	Height In Yards	Coordinates	Caliber	Estimated Range in Yards	Approx Dist Gun to Beach: in Yards	
4 88's	43	Z-246977	88	22,000	20,710	2 occ
4 lt CD	U/K	Z-254992	Lt	18,000 (?)	15,260	
4 Med	U/K	U-256032	Med	18,000 (?)	18,530	
4 DP	44	Z-271986	88(?)	22,000 (?)	19,075	
3 164mm	105	Z-396918	164	19,600	16,895	
4 CD	36	U-239018	(?)	(?)	20,492	
4 DP	U/K	U-264018	88-75	18,000-22,000	18,094	
4 DP	110	U-341026	88(?)	22,000 (?)	10,028	2 occ
2 lt CD	29	U-402163	lt	18,000 (?)	10,246	
2 lt fld	7	U-426148	lt fld	18,000 (?)	8,284	unocc
3 AA	31	U-438122	88(?)	22,000	5,995	unocc
4 DP	11	U-438142	88(?)	22,000	7,957	unocc
4 CD	31	U-439121	88	22,000	4,905	
4 CD	50	U-441118	155	25,000	5,450	
2 CD	sea level	U-448178	105-150	25,000	11,990	
4 CD	130	U-450097	CD	?	24,360	Dummy
4 lt CD	35	U-453139	lt CD	?	8,284	Dummy
2 CD	sea level	U-465190	75	18,000	13,952	
4 CD	U/K	U-475083	220mm	25,000	5,995	unocc
4 Med	11	U-475224	Med	18,000	17,440	Dummy
4 CD	52	U-480111	CD	26,000	7,848	unocc
4 CD	28	U-484104	150-155	26,000	8,720	unocc
4 Mobile	35	U-485226	75-88	22,000	16,985	(?)
4 CD	120	U-496122	105	19,000	9,919	
4 CD Hows	50	U-497171	105	13,500	13,734	occ (?)
2 lt CD	99	U-500156	lt CD	18,000 (?)	12,664	unocc
4 CD	sea level	U-515141	75mm	18,000	12,753	
4 CD	138	U-516092	150	26,000	10,573	unocc
3 CD	sea level	U-441076	75	18,000	on beach	
4 CD	25 - 35	U-522180	220	25,000	15,914	

Guns Capable of Firing on Beach #261. In addition to list of 4 July 1944.

4 DP	110	U-341026	88(?)	22,000	21,473	2 occ
4 Mobile	119	U-391041	88	22,000	15,805	
2 lt CD	29	U-402163	lt CD	18,000	12,644	2
2 lt fld	7	U-426148	lt fld	18,000	9,919	unocc
3 AA	31	U-438122	88(?)	22,000	8,175	unocc
4 DP	11	U-438142	88	22,000	8,502	unocc
4 CD 88	31	U-439121	88	22,000	8,175	
4 CD How	76	U-448107	150	5000 - 14,000	7,303	
2 CD	sea level	U-448178	105-150	25,000	9,047	
4 CD	130	U-450097	(?)	(?)	7,521	Dummy
4 lt CD	35	U-453139	lt CD	18,000 (?)	6,758	Dummy
2 CD	sea level	U-465190	75	18,000	8,720	
4 CD	(?)	U-475083	220	25,000	6,213	unocc
3 Med	11	U-475224	Med	18,000	11,554	Dummy
4 CD	52	U-480111	150-155	26,000	3,815	unocc
4 CD	28	U-484104	150-155	26,000	3,052	unocc
4 Mobile	35	U-485226	75-88	22,000	11,227	(?)
4 CD	120	U-496122	105	19,000	1,853	
4 CD How	50	U-497171	105	13,500	5,014	(?)
4 DP	88	U-502220	75	18,000	10,355	
4 CD		U-515141	475	18,000	beach	
4 CD	138	U-516092	150	26,000	3,957	unocc
3 CD	sea level	U-441076	75	18,000	9,374	
4 CD Hows	180-200	U-521165	105	13,500	4,360	unocc
4 CD	25-35	U-522180	220	25,000	6,104	
2 Lt	55	U-533253	lt	18,000 (?)	14,388	unocc
4 Mobile	102	U-533256	88	22,000	14,606	

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FRANCE 1:25.000



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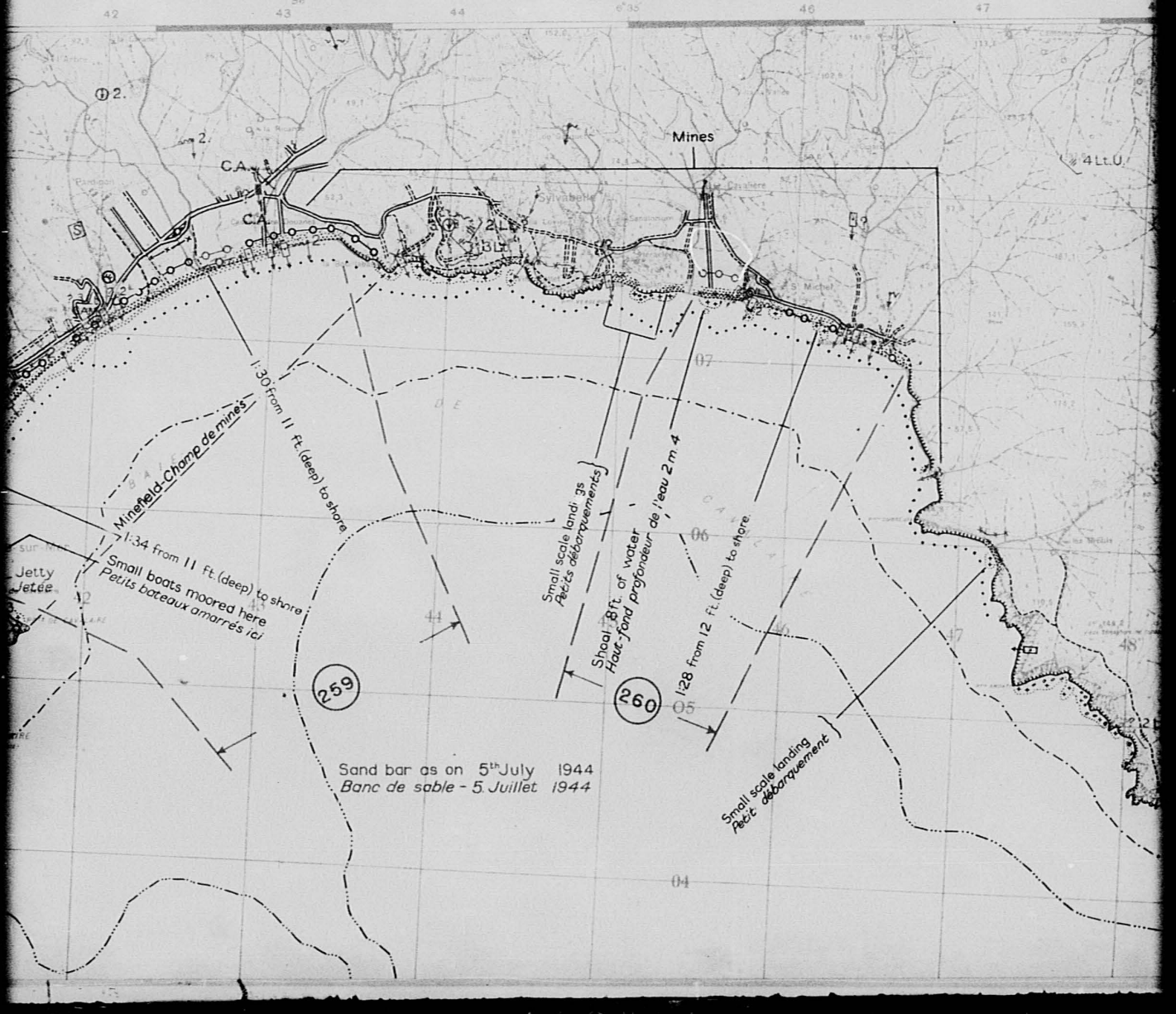
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CAP LARDIER (NW)

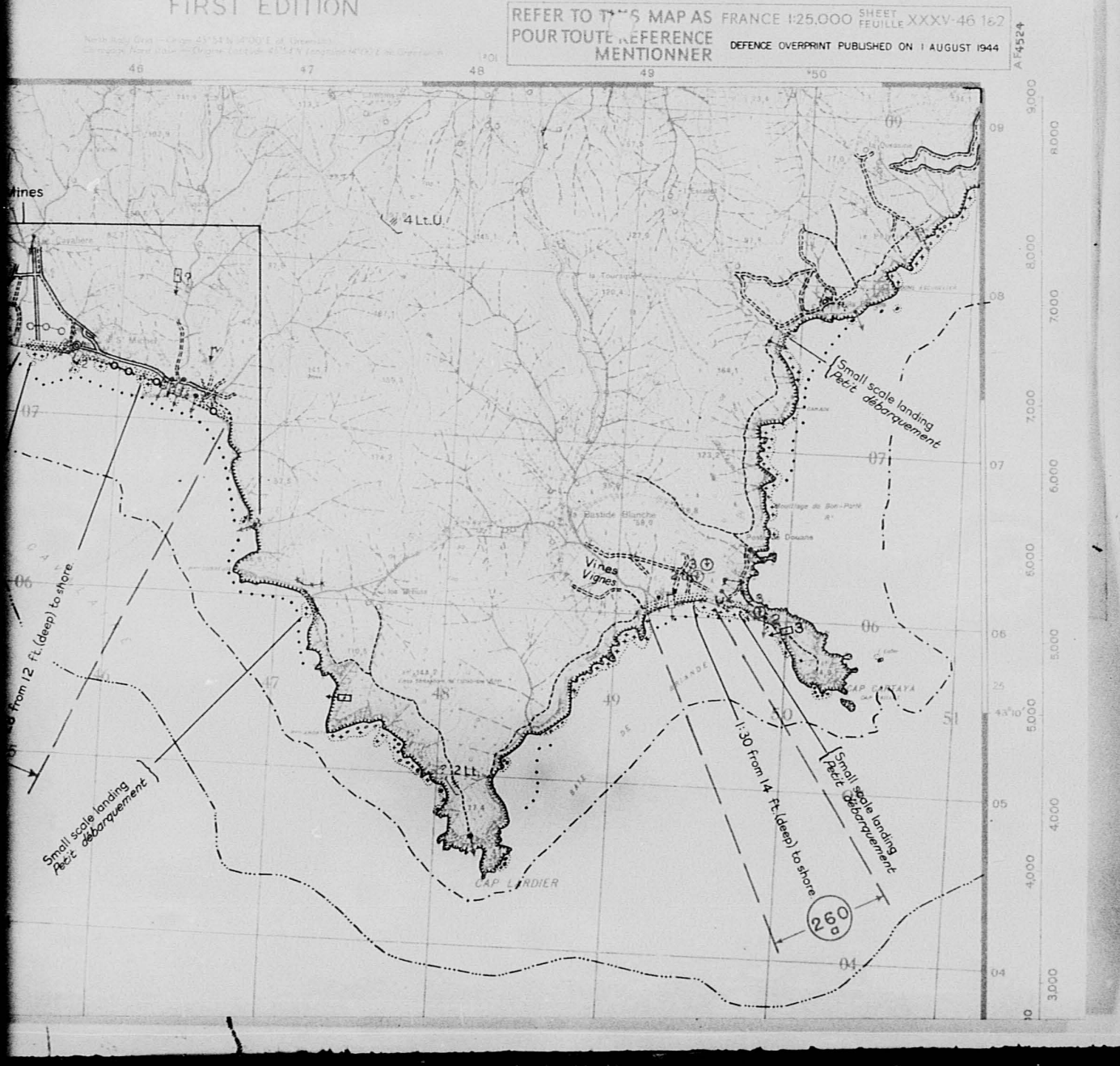


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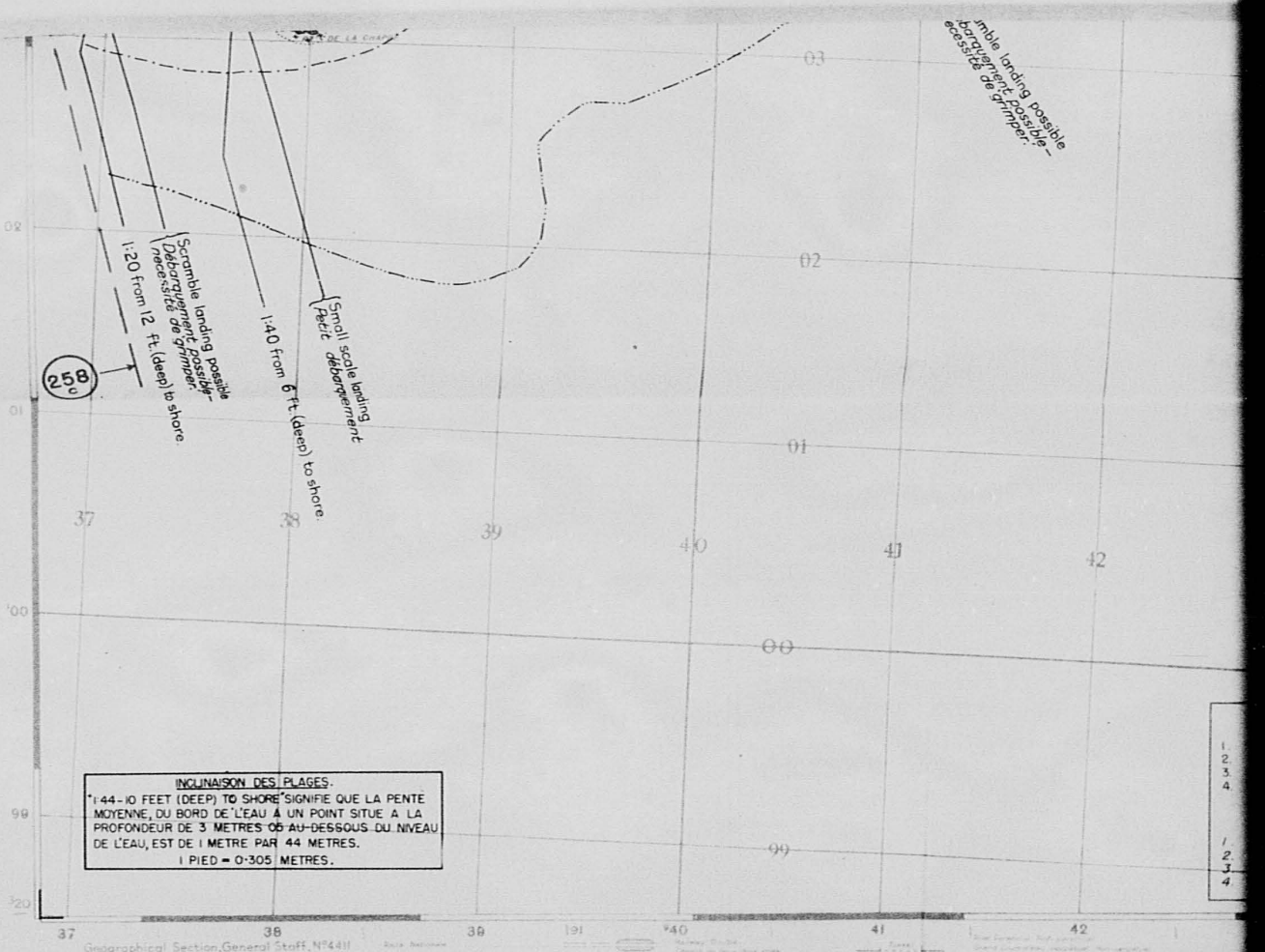


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INCLINAISON DES PLAGES.
1:44-10 FEET (DEEP) TO SHORE SIGNIFIE QUE LA PENTE MOYENNE, DU BORD DE L'EAU A UN POINT SITUE A LA PROFONDEUR DE 3 METRES 05 AU-DESSOUS DU NIVEAU DE L'EAU, EST DE 1 METRE PAR 44 METRES.
1 PIED = 0·305 METRES.

Geographical Section, General Staff, No 4411
Published by War Office 1943.

This sheet has been compared with recent Air Photographs and has been found to be up to date.
Cette feuille a été comparée avec des photographies aériennes récentes et son exactitude a été constatée.

REFER TO THIS MAP AS :-
France 1:25000 sheet XXXV-46 1&2
DEFENCE OVERPRINT PUBLISHED ON 1 AUGUST 1944
A.F. 4524

The Grid on this map is the French Lambert Zone III Grid.
Le carroyage porté sur cette feuille correspond au système de projection Lambert Zone III

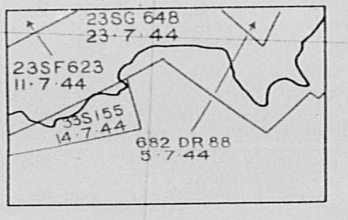
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AIR COVER DIAGRAM

DIAGRAMME DE RENSEIGNEMENTS PHOTOGRAPHIQUES



GENERAL TOPOGRAPHICAL NOTES

Densely wooded and scrub covered hills with steep slopes and numerous stream valleys will prevent the deployment of tracked and wheeled vehicles.

RENSEIGNEMENTS GENERAUX TOPOGRAPHIQUES

Des collines couvertes de bois épais et de boissons, avec des pentes abruptes et de nombreuses vallées de cours d'eau empêcheront le déploiement des véhicules à roues ou à chenilles.

BRIDGE INFORMATION

1.	? Span masonry or concrete bridge	OAL 202'	OAW 47'
2.	? Span RR bridge	OAL 62'	OAW 16'
3.	? Span masonry or concrete bridge	OAL 85'	OAW 47'
4.	? Span RR bridge	OAL 54'	OAW 12'

RENSEIGNEMENTS SUR LES PONTS

1.	*Pont avec ? arches en maçonnerie ou en béton*	*Long. Totale 62m.*	*Larg. Totale 14m.*
2.	*Pont de chemin de fer avec ? arches*	*Long. Totale 19m.*	*Larg. Totale 4m9*
3.	*Pont avec ? arches en maçonnerie ou en béton*	*Long. Totale 26m.*	*Larg. Totale 14m.*
4.	*Pont de chemin de fer avec ? arches*	*Long. Totale 16m.*	*Larg. Totale 3m7*

INFORMATION
LES RENSEIGNEMENTS
INFORMATION
LES RENSEIGNEMENTS

SEE OTHER SIDE OF SHEET FOR AFHQ LEGEND.

LA LEGENDE AFHQ EST IMPRIME

East of 8°35' Greenwich

Scale 1:25,000 Echelle

Contour Interval 10

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
EXEMPLE D'UN POINT DONNE DU CARROYAGE SUR CETTE CARTE

FOR DETAILED INFORMATION
AREA ANALYSIS No 8," OFFIC
INTELLIGENCE ANNEXE, NAVAL

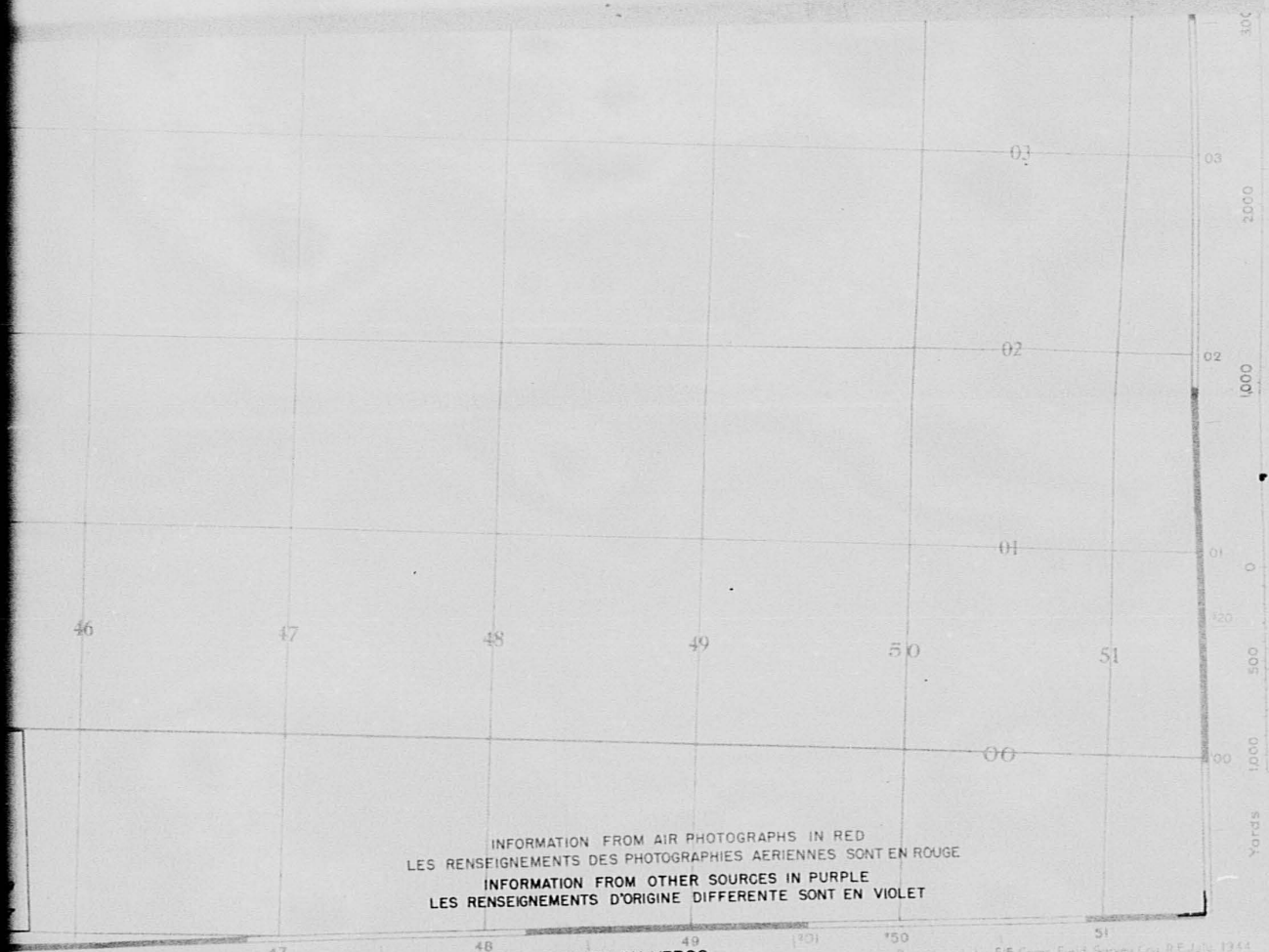
*POUR PLUS AMPLES RENSE
ANALYSIS No 8" BUREAU DU
"INTELLIGENCE ANNEXE, NAVAL*

DEFENCE OVERPRINT
DIRECTORAT
CARTE INDIQUANT LES DEFENSES
LE SURVEY DIRECTORATE, AFH

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INFORMATION FROM AIR PHOTOGRAPHS IN RED
LES RENSEIGNEMENTS DES PHOTOGRAPHIES AERIENNES SONT EN ROUGE
INFORMATION FROM OTHER SOURCES IN PURPLE
LES RENSEIGNEMENTS D'ORIGINE DIFFERENTE SONT EN VIOLET

LA LEGENDE AFHQ EST IMPRIMEE AU VERSO.

Reproduced by 516 Corps Field Survey Coy R.E. July 1944

1:25,000 Echelle

Contour Interval 10 metres Equidistance des courbes

BEACH NUMBERS

FOR DETAILED INFORMATION ON DESCRIPTION OF BEACHES REFER TO TARGET AREA ANALYSIS N°8," OFFICE OF THE A.C. OF S. G-2, HQ, SEVENTH ARMY, AND INTELLIGENCE ANNEXE, NAVAL OPERATION PLAN.

NUMEROS DES PLAGES

POUR PLUS AMPLES RENSEIGNEMENTS AU SUJET DES PLAGES, VOIR "TARGET AREA ANALYSIS N°8" BUREAU DU S.CHEF D'E.M G-2,HQ, SEPTIEME ARMEE, ET "INTELLIGENCE ANNEXE, NAVAL OPERATION PLAN".

DEFENCE OVERPRINT PUBLISHED ON 1 AUGUST 1944 BY SURVEY DIRECTORATE, AFHQ FOR AC OF S. G-2. SEVENTH ARMY

CARTE INDIQUANT LES DEFENSES EN SUR-IMPRESSION PUBLIEE LE 1 AOUT 1944 PAR LE SURVEY DIRECTORATE, AFHQ POUR LE SOUS-CHEF D'ETAT-MAJOR, G-2 SEPTIEME ARMEE

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A F H

CONVENTIONAL SIGNS AND S

SIGNES ET SYMBOLES CONVENTIO

A.F.Vs. WITH NUMBERS, WHEELED VEHICULES BLINDES A ROUES (NOMBRE DE)	6
VEHICLE PITS ALVEOLES POUR VEHICULES	V.P.
COMPANY H.Q. P.C. DE	
BATTALION H.Q. E.M. DE BATAILLON	
REGIMENTAL H.Q. E.M. DE REGIMENT	
DIVISIONAL H.Q. E.M. DE DIVISION	(D)
H.Q. UNCLASSIFIED E.M. DE NATURE INCONNUE	(?)
COMMAND POST P.C.	C.P.
BOOM, NETS, MARINE BARRAGE DE FILETS	
ROCK, UNDERWATER ROCHER SUBMERGE	
ROCK ABOVE WATER ROCHER AU DESSUS DE L'EAU	
2 FATHOM LINE LIGNE DES PROFONDEURS DE 4 METRES ENVIRON	
10 FATHOM LINE LIGNE DES PROFONDEURS DE 20 METRES ENVIRON	
30 FATHOM LINE LIGNE DES PROFONDEURS DE 60 METRES ENVIRON	
SAND BAR BANC DE SABLE	
WRECK EPAVE	
CLIFFS FALAISES	
ROCKY COAST COTE ROCHEUSE	
CONSTRUCTIONAL ACTIVITY ACTIVITE DE CONSTRUCTION	C.A.
UNDER CONSTRUCTION EN COURS DE CONSTRUCTION	U.C.

BUILDINGS STONE
CONSTRUCTION EN

CAMP WITH PITS
CAMP AVEC DES T

TENTS
TENTES

HOSPITAL
HOPITAL

AIRFIELD
AERODROME

LANDING GROUND
TERRAIN D'ATTERR

SEAPLANE STATIO
BASE D'HYDRAVIONS

AIRCRAFT BLAST
ALVEOLE

BARRAGE BALLOO
BALLON DE BARRA

LISTENING POST
POSTE D'ECOUTE

OBSERVATION POS
POSTE D'OBSERVATI

RADIO DETECTION
POSTE DE DETECTI

RADIO STATION
STATION DE T.S.F.

WIRELESS TOWER
PYLONE DE T.S.F.

TELEPHONE WIRES
FILS TELEPHONIQUE

TELEPHONE WIRE
FILS TELEPHONIQUES

UNDERGROUND CA
CABLE SOUTERRAIN

M.T. WITH NUMBER
VEHICULES AUTOMOB

A.F.Vs. WITH NUM
VEHICULES BLINDES

LES NUME

CLASSIFICATION OF GUN CALIBRES

COAST DEFENCE GUNS

Up to and including 4.7 inch or 120 mm ..... LIGHT
Over 4.7 inch or 120 mm up to and including 8 inch or 205 mm ..... MEDIUM
Over 8 inch or 205 mm ..... HEAVY

ANTI-AIRCRAFT GUNS

20 mm. to 50 mm. ..... LIGHT
75 mm. and over ..... HEAVY

ADDIT

LEGENDE

CASEMATE

BEACH AND UNDERWATER OBSTACLES

TETRAHEDRA, PYRAMIDS AND CUBES UNIDENTIFIED OBJECTS, — STEEL OR CONCRETE

TETRAHEDRES, PYRAMIDS ET CUBES OBJETS, NON DEFINIS, — ACIER OU BETON

WITH NO. OF ROWS

AVEC NOMBRE DE RANGEES

HEDGEHOG, STEEL, — WITH NO OF ROWS
HERISSONS, ACIER, — AVEC NOMBRE DE RANGEES.

SHALLOW WATER BEACH MINES, WIT
MINES DE LA PLAGE EN EAUX PEU PRO

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H Q L E G E N D.

SIGNS AND SYMBOLS USED IN ANNOTATION OF MAPS, OVERLAYS AND AIR PHOTOGRAPHS
MBOLES CONVENTIONNELS UTILISES DANS L'ANNOTATION DES CARTES, CALQUES ET PHOTOGRAPHIES AERIENNES

BUILDINGS, STONE OR BRICK
CONSTRUCTION EN PIERRE OU EN BRIQUES

CAMP WITH PITS AND NO TENTS
CAMP AVEC DES TROUS ET PAS DE TENTES

TENTS
TENTES

HOSPITAL
HOPITAL

AIRFIELD
AERODROME

LANDING GROUND
TERRAIN D'ATTERRISSAGE

SEAPLANE STATION
BASE D'HYDRAVIONS

AIRCRAFT BLAST SHELTER
ALVEOLE

BARRAGE BALLOON
BALLON DE BARRAGE

LISTENING POST
POSTE D'ECOUTE

OBSERVATION POST
POSTE D'OBSERVATION

RADIO DETECTION FINDER (RADAR)
POSTE DE DETECTION RADIO (RADAR)

RADIO STATION (W.T. STATION)
STATION DE T.S.F.

WIRELESS TOWER - POLE
PYLONE DE T.S.F. - POTEAU D'ANTENNE

TELEPHONE WIRES ON GROUND
FILS TELEPHONIQUES POSES SUR LE SOL

TELEPHONE WIRES ON POLES
FILS TELEPHONIQUES SUR POTEAUX

UNDERGROUND CABLE
CABLE SOUTERRAIN

M.T. WITH NUMBERS
VEHICULES AUTOMOBILES (NOMBRE DE)

A.F.V. WITH NUMBERS, TRACKED
VEHICULES BLINDES A CHENILLES (NOMBRE DE)

BEACH NUMBERS ARE INDICATED THUS:
LES NUMEROS DES PLAGES SONT INDIQUES COMME SUIT

DRAGONS TEETH WITH NUMBER OF ROWS
OBSTACLES EN PYRAMIDES AVEC LE NOMBRE DE RANGEES

HEDGEHOG
CHEVAUX DE FRISE

WIRE UNCLASSIFIED ONE ROW TWO ROWS THREE ROWS ETC
RESEAUX NON CLASSIFIES - UNE RANGEE - 2 RANGEES - 3 RANGEES

WIRE CONCERTINA ONE ROW TWO ROWS THREE ROWS ETC
RESEAU BRUN - UNE RANGEE - 2 RANGEES - 3 RANGEES

TANK TRAPS
PIEGES A CHAR

A.T. MINES
MINES ANTI CHAR

ROAD BLOCK - WITH M.G. - WITH A.T. GUN
BARRAGE DE ROUTE - AVEC MITRAILLEUSE - AVEC CANON ANTI CHAR

BRIDGE, BLOWN
PONT SAUTE

BRIDGE - PREPARED FOR DEMOLITION
PONT DONT LA DESTRUCTION EST PREPAREE

WEAPON PITS (FOXHOLES) FIRE TRENCHES OR BREASTWORKS
EMPLACEMENTS D'ARMES AUTOMATIQUES, TRANCHEES DE TIR OU PARAPETS

TRENCHES WITHOUT WEAPON PITS
TRANCHEES SANS EMPLACEMENTS D'ARMES AUTOMATIQUES

SLIT TRENCHES
TRANCHEES ETROITES

NEW CONSTRUCTION OR DIGGING
CONSTRUCTIONS NOUVELLES OU TRAVAUX DE TERRASSEMENT

BLASTING
TRAVAUX DE MINES

DUMPS - AMMUNITION
DEPOT DE MUNITIONS

DUMPS - PETROL, OIL, LUBRICANTS
DEPOT DE CARBURANTS ET LUBRIFIANTS

DUMPS - SUPPLIES
DEPOT DE RAVITAILLEMENT

DUMPS - CHEMICAL GAS STORAGE
DEPOT ET RESERVOIR A GAZ

DUMPS - TYPE UNKNOWN
DEPOT DE NATURE INCONNUE

HUTS WITH NUMBERS
BARAQUEMENTS AVEC NOMBRES

OCCUPIED
OCCUPE

UNOCCUPIED
NON OCCUPE

UNSERVICEABLE
INUTILISABLE

DUAL PURPOSE
A DOUBLE USAGE

CAMOUFLAGE
CAMOUFLE

DUMMY
FACTICE

UNDERGROUND
SOUTERRAIN

MILITARY ACTIVITY
ACTIVITE MILITAIRE

ENEMY OCCUPIED
OCCUPE PAR L'ENNEMI

EXISTENCE DOUBTFUL
DOUTEUX

POSITION DOUBTFUL i.e. when more than one item owing to
POSITION DOUTEUSE c.à.d. Lorsque par suite signale plus d'un emplac

POSITION APPROXIMATE i.e. When identific
POSITION APPROXIMATIVE c.à.d. Lorsque l'e avec

FIXED POSITION
POSITION FIXEE

SPOT HEIGHTS
COTE D'ALTITUDE

LIGHT
LEGER(E)

MEDIUM
MOYEN (NE)

HEAVY
LOURD (E)

SUSPECTED OR POSSIBLE
SOUPÇONNE OU POSSIBLE

ADDITIONAL LEGEND (PROVISIONAL)

LEGENDE SUPPLEMENTAIRE (PROVISOIRE)

CASEMATE

OBSTACLES

CM

OBSTACLES SUBMERGES ET SUR LA PLAGE

ELEMENT 'C'
TUBULAR SCAFFOLDING, STEEL, WITH NO. OF ROWS
OBSTACLES GENIE "DE GOINTET"
ECHAFAUDAGES TUBULAIRES, ACIER, AVEC NOMBRE DE RANGEES

STAKES OR FENCING
JETTED RAILS, STEEL AND WOOD, WITH NO OF ROWS
POTEAUX OU GRILLAGES
POTEAUX INCLINES, ACIER OU BOIS, AVEC NOMBRE DE RANGEES

CH MINES, WITH NO OF ROWS
EN EAUX PEU PROFONDES, AVEC NOMBRE DE RANGEES

CLASSIFICATION DE CALIBRES
ARTILLERIE DE DEFENSE COTIERE
Inferieur ou égal à 4.7 inch ou 120 mm ... LEGER
Au dessus de 4.7 inch ou 120 mm jusqu'à 8 inch ou 205 mm Compris ... MOYEN
Au dessus de 8 inch ou 205 mm ... LOURD

CANONS ANTI-AERIENS
De 20 mm à 50 mm compris ... LEGER
75 mm et au dessus ... LOURD

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G E N D.

OVERLAYS AND AIR PHOTOGRAPHS

...ES ET PHOTOGRAPHIES AERIENNES

	DRAGONS TEETH WITH NUMBER OF ROWS OBSTACLES EN PYRAMIDES AVEC LE NOMBRE DE RANGEES			
	HEDGEHOG CHEVAUX DE FRISE			
	WIRE UNCLASSIFIED - ONE ROW - TWO ROWS - THREE ROWS etc RESEAUX NON CLASSIFIES - UNE RANGEE - 2 RANGEES - 3 RANGEES			
	WIRE CONCERTINA - ONE ROW - TWO ROWS - THREE ROWS etc RESEAU BRLN - UNE RANGEE - 2 RANGEES - 3 RANGEES			
	TANK TRAPS PIEGES A CHAR			
	A.T. MINES MINES ANTI CHAR			
	ROAD BLOCK - WITH M.G. - WITH A.T. GUN BARRAGE DE ROUTE - AVEC MITRAILLEUSE - AVEC CANON ANTI CHAR			
	BRIDGE BLOWN PONT SAUTE			
	BRIDGE - PREPARED FOR DEMOLITION PONT DONT LA DESTRUCTION EST PREPAREE			
L.P.	WEAPON PITS (FOXHOLES) FIRE TRENCHES OR BREASTWORKS EMPLACEMENTS D'ARMES AUTOMATIQUES, TRANCHEES DE TIR OU PARAPETS			
O.P.	TRENCHES WITHOUT WEAPON PITS TRANCHEES SANS EMPLACEMENTS D'ARMES AUTOMATIQUES			
	SLIT TRENCHES TRANCHEES ETROITES			
RS	NEW CONSTRUCTION OR DIGGING CONSTRUCTIONS NOUVELLES OU TRAVAUX DE TERRASSEMENT			
	BLASTING TRAVAUX DE MINES			
	DUMPS - AMMUNITION DEPOT DE MUNITIONS	A	OCCUPIED OCCUPE	OCC
	DUMPS - PETROL, OIL, LUBRICANTS DEPOT DE CARBURANTS ET LUBRIFIANTS	P	UNOCCUPIED NON OCCUPE	U.
U/G	DUMPS - SUPPLIES DEPOT DE RAVITAILLEMENT	S	UNSERVICEABLE INUTILISABLE	U/S
10	DUMPS - CHEMICAL GAS STORAGE DEPOT ET RESERVOIR A GAZ	G	DUAL PURPOSE A DOUBLE USAGE	D.P.
6	DUMPS - TYPE UNKNOWN DEPOT DE NATURE INCONNUE	?	CAMOUFLAGE CAMOUFLE	CAM
	HUTS WITH NUMBERS BARAQUEMENTS AVEC NOMBRES	12	DUMMY FACTICE	DUM
			UNDERGROUND SOUTERRAIN	U/G
			MILITARY ACTIVITY ACTIVITE MILITAIRE	M.A.
			ENEMY OCCUPIED OCCUPE PAR L'ENNEMI	E.O.
			EXISTENCE DOUBTFUL DOUTEUX	E.D.
			POSITION DOUBTFUL i.e When more than one location has been reported for one item owing to ambiguous reports POSITION DOUTEUSE c.à.d. Lorsque par suite de renseignements ambigus on a signalé plus d'un emplacement pour un element donné	P.D.
			POSITION APPROXIMATE i.e When location cannot be pin-pointed POSITION APPROXIMATIVE c.à.d Lorsque l'emplacement ne peut être restitué avec exactitude	P.A.
			FIXED POSITION POSITION FIXEE	FXD POS
			SPOT HEIGHTS COTE D'ALTITUDE	• 187
			LIGHT LEGER(E)	Lt
			MEDIUM MOYEN (NE)	Med
			HEAVY LOURD (E)	Hy
			SUSPECTED OR POSSIBLE SOUPÇONNE OU POSSIBLE	?

...)

...IRE)

...GM

CLASSIFICATION DE CALIBRES
ARTILLERIE DE DEFENSE COTIERE

Inferieur ou égal à 4.7 inch ou 120 mm	LEGER
Au dessus de 4.7 inch ou 120 mm jusqu'à 8 inch ou 205 mm compris	MOYEN
Au dessus de 8 inch ou 205 mm	LOURD

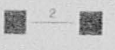
CANONS ANTI-AERIENS

De 20 mm à 50 mm compris	LEGER
75 mm et au dessus	LOURD

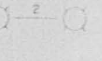
OBSTACLES SUBMERGES ET SUR LA PLAGE

..., STEEL, WITH NO. OF ROWS
...E COINTET"
...AIRES, ACIER, AVEC NOMBRE DE RANGEES

... AND WOOD, WITH NO. OF ROWS
...GES
...ACIER OU BOIS, AVEC NOMBRE DE RANGEES





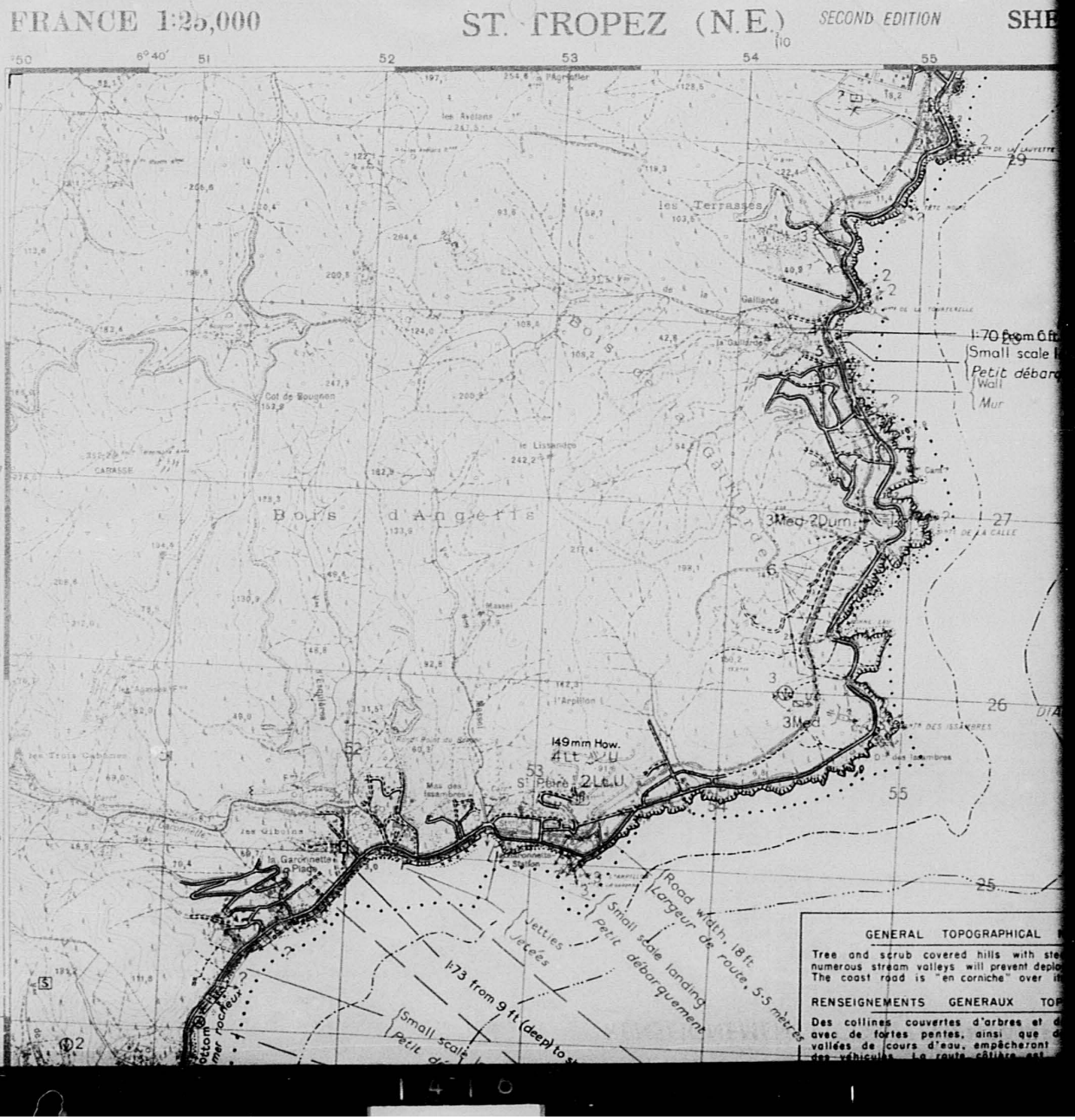


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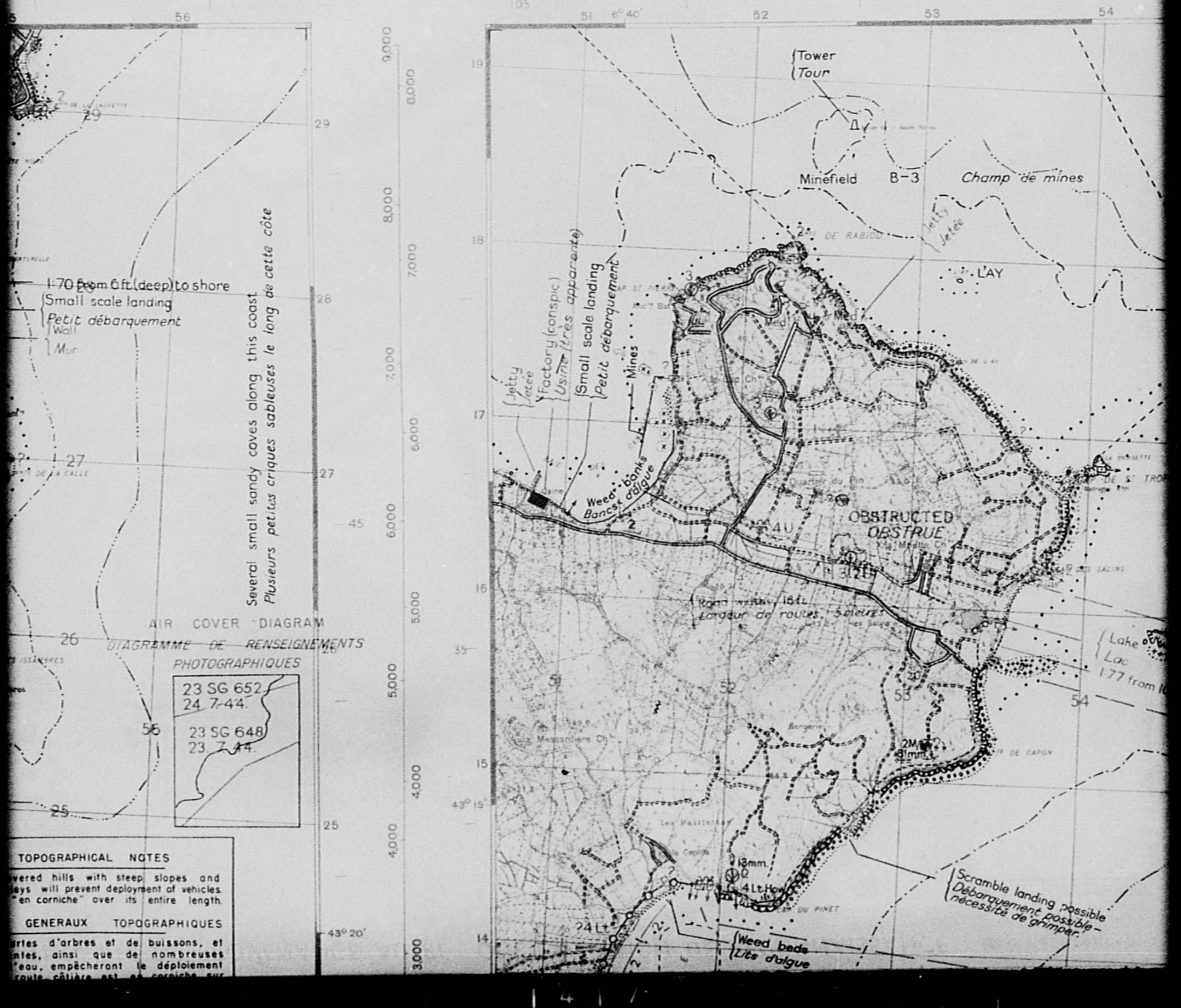
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SHEET XXXV-45 3 FRANCE 1:25,000 ST. TROPEZ (S.E.)



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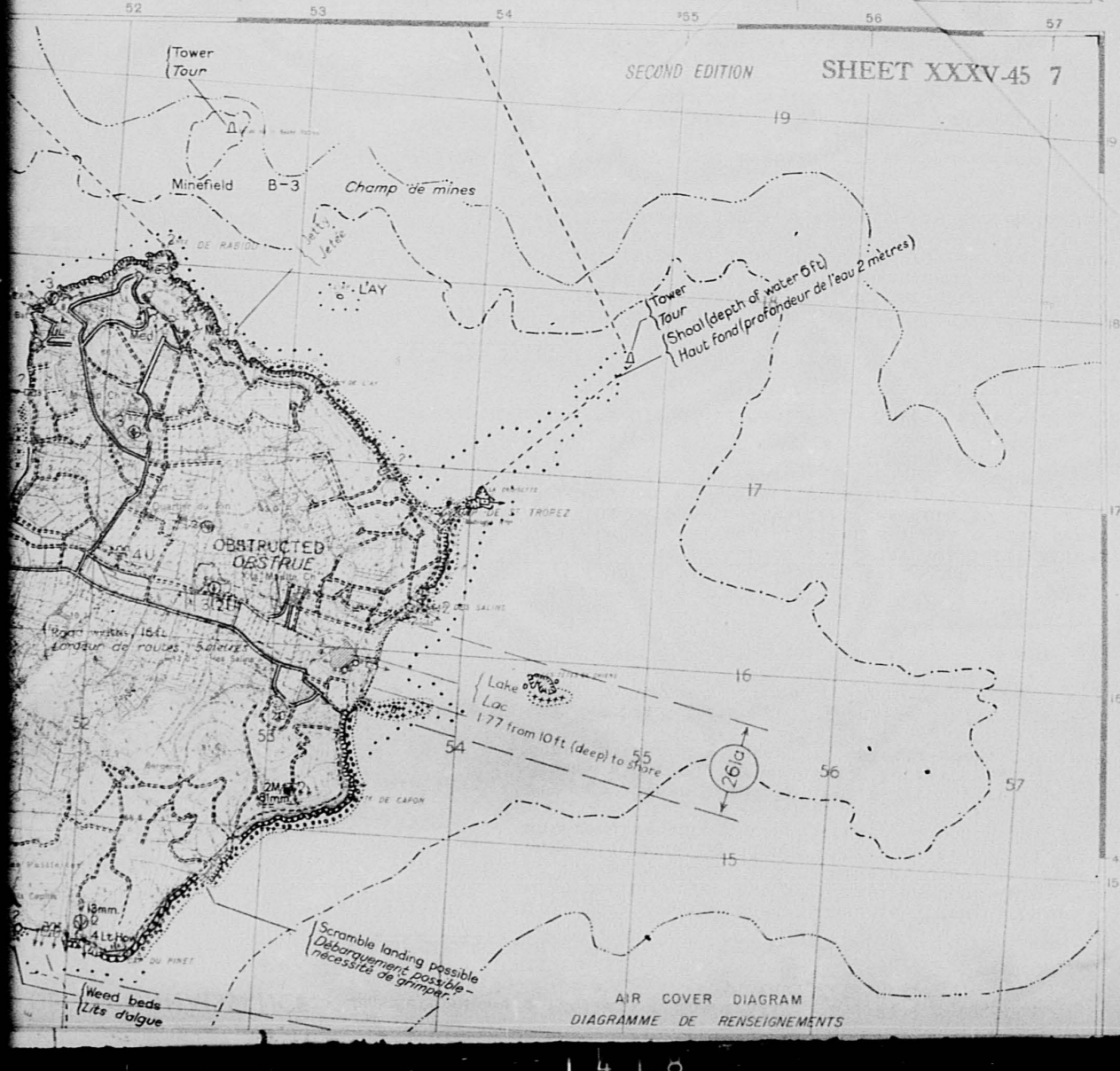
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:25,000 ST. TROPEZ (S.E.)

REFER TO THIS MAP AS FRANCE 1:25,000 SHEETS XXXV-45 3 FEUILLES XXXV-45 7
POUR TOUTE REFERENCE MENTIONNER DEFENCE OVERPRINT PUBLISHED ON 1 AUGUST 1944

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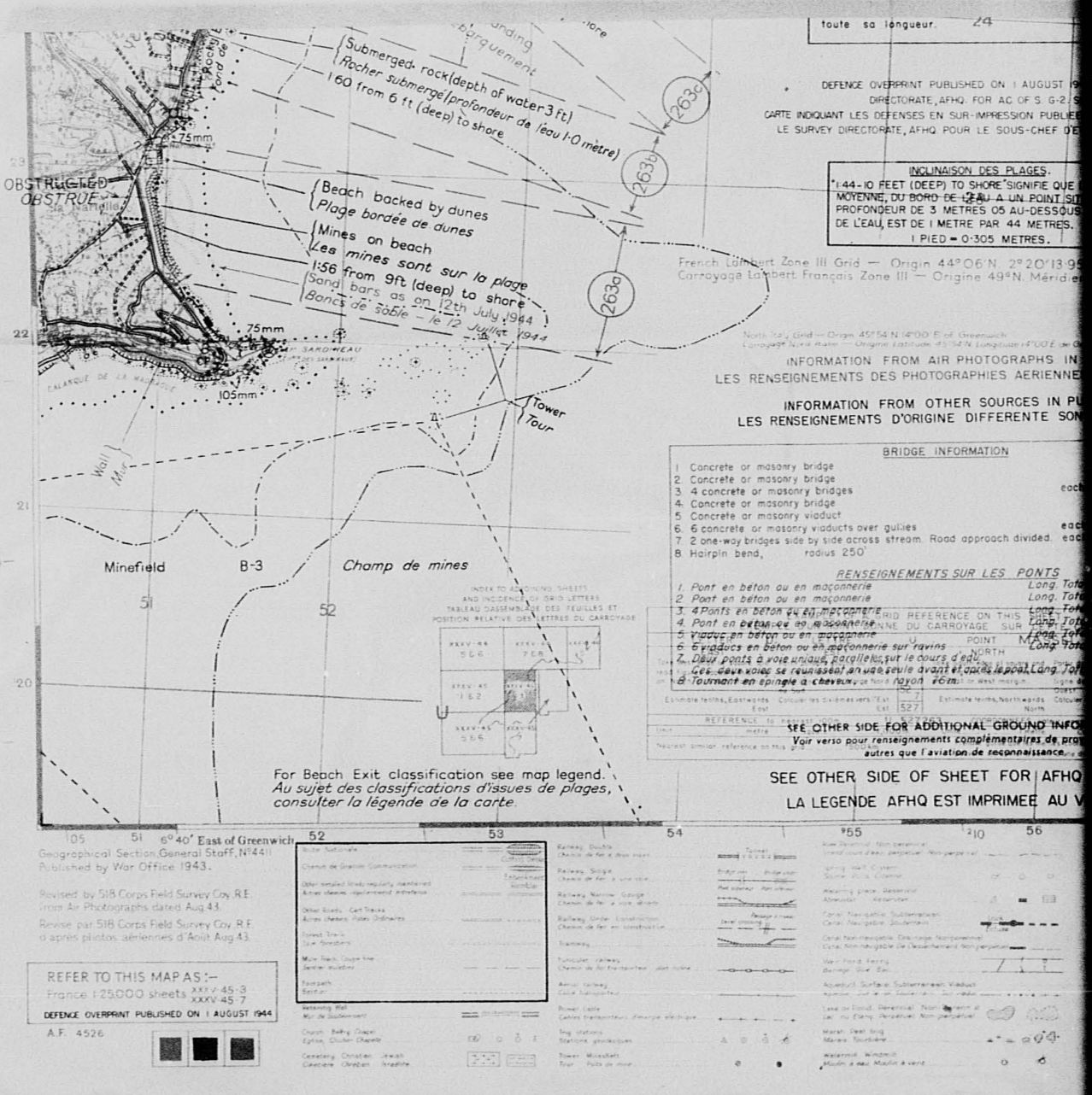
SECOND EDITION SHEET XXXV-45 7



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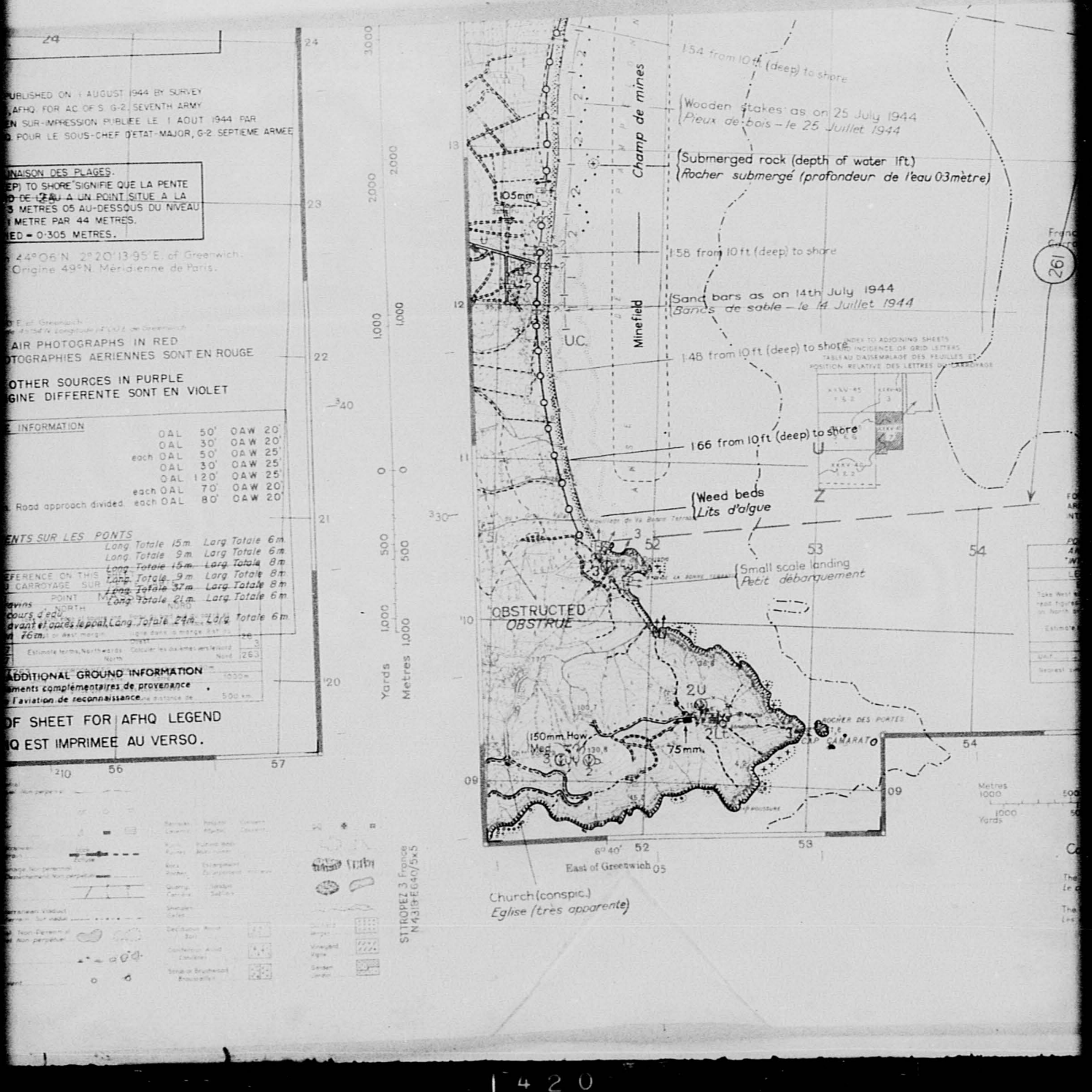
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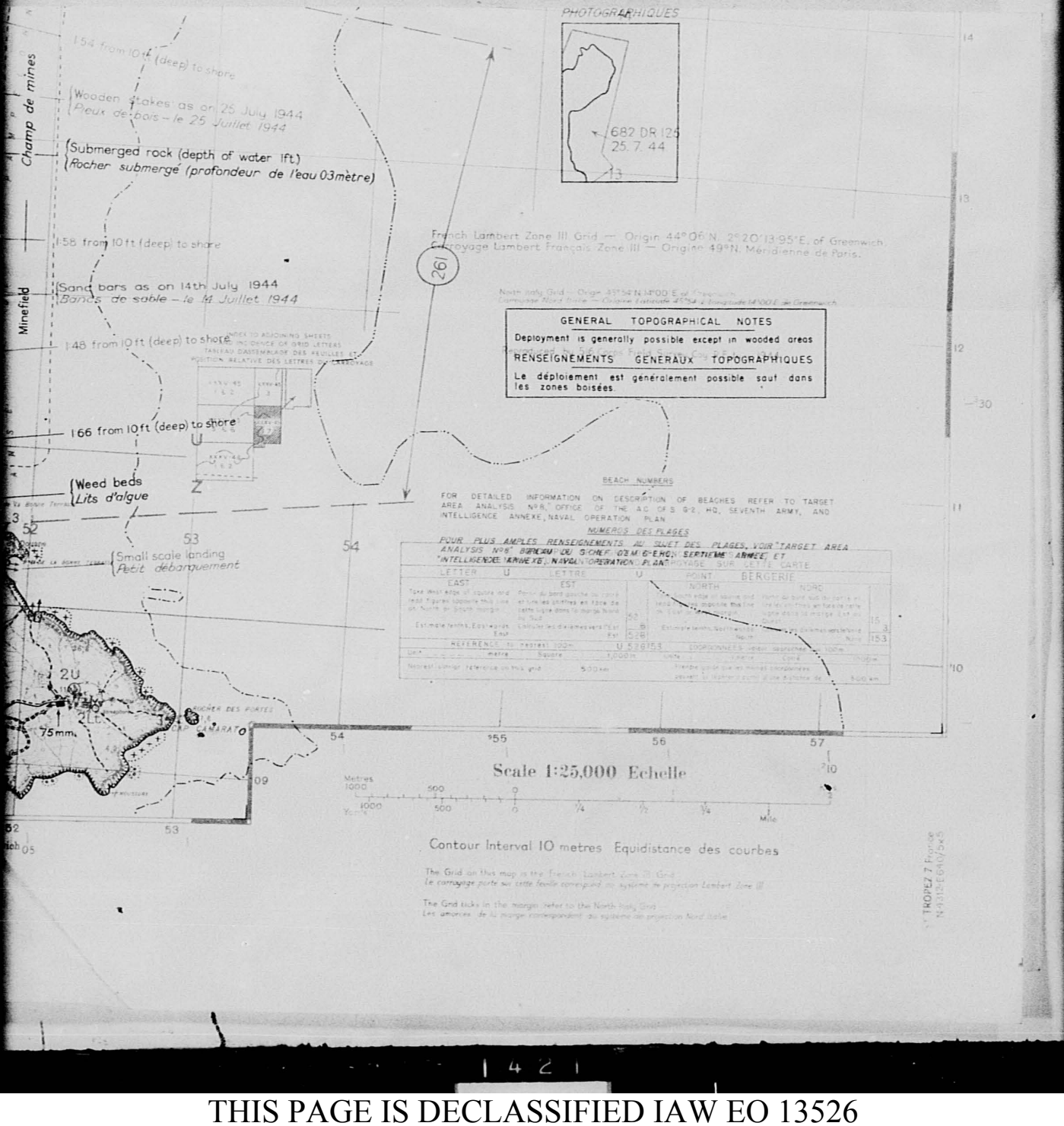


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A

CONVENTIO

S/

C.D. POSITION WITH NUMBER OF GUNS
POSITION DE DEFENSE COTIERE (AVEC LE NOMBRE DE PIECES)

FAILAKA GUN
PIECE D'ELVY

HEAVY A.A. POSITION WITH NUMBER OF GUNS (HAA)
POSITION DE D.C.A. LOURDE (AVEC LE NOMBRE DE PIECES)

LIGHT A.A. POSITION WITH NUMBER OF GUNS (LAA)
POSITION DE D.C.A. LEGERE (AVEC LE NOMBRE DE PIECES)

D.P. (A.A.-C.D.) POSITION WITH NUMBER OF GUNS
POSITION DE BATTERIE A DOUBLE USAGE-DEFENSE COTIERE ET DE D.C.A. GROS CALIBRE (AVEC LE NOMBRE DE PIECES)

FIELD GUN POSITION WITH NUMBER OF GUNS
POSITION D'ARTILLERIE DE CAMPAGNE (AVEC LE NOMBRE DE PIECES)

SINGLE GUN POSITION—FIXED
PIECE UNIQUE D'ARTILLERIE—FIXE

SINGLE GUN POSITION—MOBILE
PIECE UNIQUE D'ARTILLERIE—MOBILE

ANTI TANK GUN
CANON ANTI CHAR

MACHINE GUN POSITION WITH NUMBER OF GUNS
N.D. DE MITRAILLEUSES (AVEC LE NOMBRE DE PIECES)

MORTAR POSITION
POSITION DE MORTIER

PILLBOX
PETIT BLOCKHAUS

CASEMATE CAPABLE OF CONTAINING A LIGHT GUN
BLOCKHAUS POUR PETIT CANON

SEARCHLIGHT (SIPH)
PROJECTEUR

INFANTRY POSITIONS PROBABLY CONTAINING A.T. GUNS AND M.G's
POSITION D'INFANTERIE PROBABLEMENT AVEC CANON ANTI CHAR ET MITRAILLEUSES

STRONG POINT
POINT D'APPUI ORGANISE

DUG-OUT
TRANCHEE

ANTI TANK DITCH
FOSSE ANTI CHAR

ANTI TANK WALL
MUR ANTI CHAR

A.F.Vs WITH NUMBERS WHEELED
VEHICULES BLINDES A ROUES (NOMBRE DE)

VEHICLE PITS
ALVEOLES POUR VEHICULES

COMPANY H.Q.
P.C. DE

BATTALION H.Q.
E.M. DE BATAILLON

REGIMENTAL H.Q.
E.M. DE REGIMENT

DIVISIONAL H.Q.
E.M. DE DIVISION

H.Q. UNCLASSIFIED
E.M. DE NATURE INCONNUE

COMMAND POST
P.C.

BOOM, NETS, MARINE
BARRAGE DE FILETS

ROCK, UNDERWATER
ROCHER SUBMERGE

ROCK ABOVE WATER
ROCHER AU DESSUS DE L'EAU

2 FATHOM LINE
LIGNE DES PROFONDEURS DE 4 METRES ENVIRON

10 FATHOM LINE
LIGNE DES PROFONDEURS DE 20 METRES ENVIRON

30 FATHOM LINE
LIGNE DES PROFONDEURS DE 60 METRES ENVIRON

SAND BAR
BANC DE SABLE

WRECK
EPAVE

CLIFFS
FALAISES

ROCKY COAST
COTE ROCHEUSE

CONSTRUCTIONAL ACTIVITY
ACTIVITE DE CONSTRUCTION

UNDER CONSTRUCTION
EN COURS DE CONSTRUCTION

CLASSIFICATION OF GUN CALIBRES

COAST DEFENCE GUNS
Up to and including 4.7 inch or 120 mm ..... LIGHT
Over 4.7 inch or 120 mm up to and including 8 inch or 205 mm ..... MEDIUM
Over 8 inch or 205 mm ..... HEAVY

ANTI-AIRCRAFT GUNS
20 mm to 50 mm ..... LIGHT
75 mm. and over ..... HEAVY

BEACH AND UNDER

TETRAHEDRA, PYRAMIDS AND CUBES UNIDENTIFIED OBJECTS, — STEEL OR CONGRETE — WITH NO OF ROWS
TETRAEDRES, PYRAMIDS ET CUBES OBJETS, NON DEFINIS, — ACIER OU BETON — AVEC NOMBRE DE RANGEES

HEDGEHOG, STEEL, HERISSONS, ACIER, — WITH NO OF ROWS. AVEC NOMBRE DE RANGEES

SHALLOW WATER
MINES DE LA

The following information has been extracted from reports from ground sources. It is reproduced here for the purpose of amplifying the defense information furnished by the Collation Maps and includes items which, in conjunction with the indications of photographic interpretation, appear to be true.

Map reference : Collation Sheet XXXV-45, 3; 1:25,000 : St TROPEZ (N.E.)

FIXED DEFENCES:

53252500 Key to the sketch of strong point on FOINTE de l'ARPILLON: (sketch A)

A German LMG in open emplacement for rear defense.

B Light AA/MG in open emplacement, occupied during day only.

ADDITION

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A F H Q L E G E N D.

CONVENTIONAL SIGNS AND SYMBOLS USED IN ANNOTATION OF MAPS, OVERLAYS AND AIR PHOTOGRAPHS

SIGNES ET SYMBOLES CONVENTIONNELS UTILISES DANS L'ANNOTATION DES CARTES, CALQUES ET PHOTOGRAPHIES AERIENNES

BUILDINGS, STONE OR BRICK
CONSTRUCTION EN PIERRE OU EN BRIQUES

CAMP WITH PITS AND NO TENTS
CAMP AVEC DES TROUS ET PAS DE TENTES

TENTS
TENTES

HOSPITAL
HOPITAL

AIRFIELD
AERODROME

LANDING GROUND
TERRAIN D'ATTERRISSAGE

SEAPLANE STATION
BASE D'HYDRAVIONS

AIRCRAFT BLAST SHELTER
ALVEOLE

BARRAGE BALLOON
BALLON DE BARRAGE

LISTENING POST
POSTE D'ECOUTE

OBSERVATION POST
POSTE D'OBSERVATION

RADIO DETECTION FINDER (RADAR)
POSTE DE DETECTION RADIO (RADAR)

RADIO STATION (W.T. STATION)
STATION DE T.S.F.

WIRELESS TOWER – POLE
PYLONE DE T.S.F. – POTEAU D'ANTENNE

TELEPHONE WIRES ON GROUND
FILS TELEPHONIQUES POSES SUR LE SOL

TELEPHONE WIRES ON POLES
FILS TELEPHONIQUES SUR POTEAUX

UNDERGROUND CABLE
CABLE SOUTERRAIN

M.T. WITH NUMBERS
VEHICULES AUTOMOBILES (NOMBRE DE)

A.F.Vs WITH NUMBERS, TRACKED
VEHICULES BLINDES A CHENILLES (NOMBRE DE)

BEACH NUMBERS ARE INDICATED THUS:
LES NUMEROS DES PLAGES SONT INDIQUES COMME SUIT

DRAGONS TEETH WITH NUMBER OF ROWS
OBSTACLES EN PYRAMIDES AVEC LE NOMBRE DE RANGEES

HEDGEHOG
CHEVAUX DE FRISE

WIRE, UNCLASSIFIED – ONE ROW – TWO ROWS – THREE ROWS etc
RESEAUX NON CLASSIFIES – UNE RANGEE – 2 RANGEES – 3 RANGEES

WIRE CONCERTINA – ONE ROW – TWO ROWS – THREE ROWS etc
RESEAU BRUN – UNE RANGEE – 2 RANGEES – 3 RANGEES

TANK TRAPS
PIEGES A CHAR

A.T. MINES
MINES ANTI CHAR

ROAD BLOCK – WITH M.G. – WITH A.T. GUN
BARRAGE DE ROUTE – AVEC MITRAILLEUSE – AVEC CANON ANTI CHAR

BRIDGE BLOWN
PONT SAUTE

BRIDGE PREPARED FOR DEMOLITION
PONT DONT LA DESTRUCTION EST PREPAREE

WEAPON PITS (FOXHOLES) FIRE TRENCHES OR BREASTWORKS
EMPLACEMENTS D'ARMES AUTOMATIQUES, TRANCHEES DE TIR OU PARAPETS

TRENCHES WITHOUT WEAPON PITS
TRANCHEES SANS EMPLACEMENTS D'ARMES AUTOMATIQUES

SLIT TRENCHES
TRANCHEES ETROITES

NEW CONSTRUCTION OR DIGGING
CONSTRUCTIONS NOUVELLES OU TRAVAUX DE TERRASSEMENT

BLASTING
TRAVAUX DE MINES

DUMPS – AMMUNITION
DEPOT DE MUNITIONS

DUMPS – PETROL, OIL, LUBRICANTS
DEPOT DE CARBURANTS ET LUBRIFIANTS

DUMPS – SUPPLIES
DEPOT DE RAVITAILLEMENT

DUMPS – CHEMICAL GAS STORAGE
DEPOT ET RESERVOIR A GAZ

DUMPS – TYPE UNKNOWN
DEPOT DE NATURE INCONNUE

HUTS WITH NUMBERS
BARAQUEMENTS AVEC NOMBRES

ADDITIONAL LEGEND (PROVISIONAL)

LEGENDE SUPPLEMENTAIRE (PROVISOIRE)

CASEMATE ..... CM

CLASSIFICATION DE CALIBRES
ARTILLERIE DE DEFENSE COTIERE
Inférieur ou égal à 4.7 inch ou 120 mm
Au dessus de 4.7 inch ou 120 mm jusqu'à 8 inch ou 205 m
Au dessus de 8 inch ou 205 mm

CANONS ANTI-AERIENS
De 20 mm à 50 mm compris
75 mm et au dessus

BEACH AND UNDERWATER OBSTACLES

OBSTACLES SUBMERGES ET SUR LA PLAGE

ELEMENT
TUBULAR SCAFFOLDING, STEEL, WITH NO OF ROWS
OBSTACLES GENIE "DE COINTET"
ECHAFAUDAGES TUBULAIRES, ACIER, AVEC NOMBRE DE RANGEES

STAKES OR FENCING
JETTED RAILS, STEEL AND WOOD, WITH NO OF ROWS
POTEAUX OU GRILLAGES
POTEAUX INCLINES, ACIER OU BOIS, AVEC NOMBRE DE RANGEES

SHALLOW WATER BEACH MINES, WITH NO OF ROWS
MINES DE LA PLAGE EN EAUX PEU PROFONDES, AVEC NOMBRE DE RANGEES

DITIONAL GROUND INFORMATION

The followi
from ground sour
amplifying the d
maps and include
tions of photogr

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E N D

AND AIR PHOTOGRAPHS
PHOTOGRAPHIES AERIENNES

DRAGONS TEETH WITH NUMBER OF ROWS OBSTACLES EN PYRAMIDES AVEC LE NOMBRE DE RANGEES		OCCUPIED OCCUPE	OCC
HEDGEHOG CHEVAUX DE FRISE		UNOCCUPIED NON OCCUPE	U
WIRE, UNCLASSIFIED – ONE ROW – TWO ROWS – THREE ROWS, etc RESEAUX NON CLASSIFIES – UNE RANGEE – 2 RANGEES – 3 RANGEES		UNSERVICEABLE INUTILISABLE	U/S
WIRE, CONCERTINA – ONE ROW – TWO ROWS – THREE ROWS, etc RESEAU BRUN – UNE RANGEE – 2 RANGEES – 3 RANGEES		DUAL PURPOSE A DOUBLE USAGE	DP
TANK TRAPS PIEGES A CHAR		CAMOUFLAGE CAMOUFLE	CAM
A.T. MINES MINES ANTI CHAR		DUMMY FACTICE	DUM
ROAD BLOCK – WITH M.G. – WITH A.T. GUN BARRAGE DE ROUTE – AVEC MITRAILLEUSE – AVEC CANON ANTI CHAR		UNDERGROUND SOUTERRAIN	U/G
BRIDGE, BLOWN PONT SAUTE		MILITARY ACTIVITY ACTIVITE MILITAIRE	MA
BRIDGE – PREPARED FOR DEMOLITION PONT DONT LA DESTRUCTION EST PREPAREE		ENEMY OCCUPIED OCCUPE PAR L'ENNEMI	EO
WEAPON PITS (FOXHOLES) FIRE TRENCHES OR BREASTWORKS EMPLACEMENTS D'ARMES AUTOMATIQUES, TRANCHEES DE TIR OU PARAPETS		EXISTENCE DOUBTFUL DOUTEUX	ED
TRENCHES WITHOUT WEAPON PITS TRANCHEES SANS EMPLACEMENTS D'ARMES AUTOMATIQUES		POSITION DOUBTFUL i.e. When more than one location has been reported for one item owing to ambiguous reports POSITION DOUTEUSE c.à.d. Lorsque par suite de renseignements ambigus on a signalé plus d'un emplacement pour un element donné	PD
SLIT TRENCHES TRANCHEES ETROITES		POSITION APPROXIMATE i.e. When location cannot be pin pointed POSITION APPROXIMATIVE c.à.d. Lorsque l'emplacement ne peut être restitué avec exactitude	PA
NEW CONSTRUCTION OR DIGGING CONSTRUCTIONS NOUVELLES OU TRAVAUX DE TERRASSEMENT		FIXED POSITION POSITION FIXE	FXD POS
BLASTING TRAVAUX DE MINES		SPOT HEIGHTS COTE D'ALTITUDE	• 187
DUMPS – AMMUNITION DEPOT DE MUNITIONS	A	LIGHT LEGER(E)	Lt
DUMPS – PETROL, OIL, LUBRICANTS DEPOT DE CARBURANTS ET LUBRIFIANTS	P	MEDIUM MOYEN (NE)	Med
DUMPS – SUPPLIES DEPOT DE RAVITAILLEMENT	S	HEAVY LOURD (E)	Hy
DUMPS – CHEMICAL GAS STORAGE DEPOT ET RESERVOIR A GAZ	G	SUSPECTED OR POSSIBLE SOUPCONNE OU POSSIBLE	?
DUMPS – TYPE UNKNOWN DEPOT DE NATURE INCONNUE	?		
HUTS WITH NUMBERS BARAQUEMENTS AVEC NOMBRES	1 — 12		

CLASSIFICATION DE CALIBRES
ARTILLERIE DE DEFENSE COTIERE

Inférieur ou égal à 4.7 inch ou 120 mm	LEGER
Au dessus de 4.7 inch ou 120 mm jusqu'à 8 inch ou 205 mm compris	MOYEN
Au dessus de 8 inch ou 205 mm	LOURD

CANONS ANTI-AERIENS

De 20 mm à 50 mm compris	LEGER
75 mm et au dessus	LOURD

CLES SUBMERGES ET SUR LA PLAGE

L, WITH NO OF ROWS
TET"
ACIER, AVEC NOMBRE DE RANGEES.

WOOD, WITH NO OF ROWS
OU BOIS, AVEC NOMBRE DE RANGEES.

ION

The following information has been extracted from reports from ground sources. It is reproduced here for the purpose of amplifying the defense information furnished by the collation maps and includes items which, in conjunction with the indications of photographic interpretation, appear to be true.

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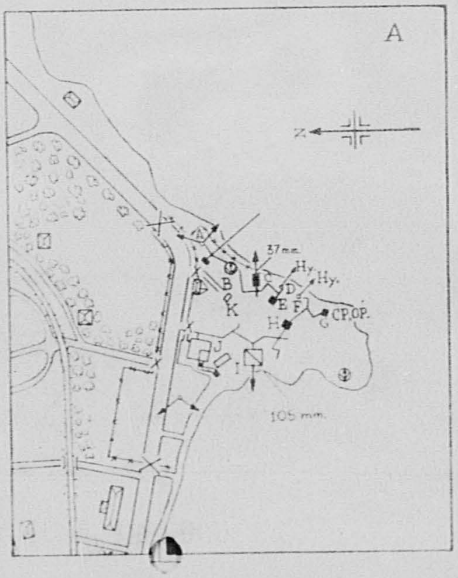
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C	German 37 mm A/T gun in earth position.
D	Italian HMG in covered circular earth position.
E	Two ammunition dugouts.
F	Italian HMG in covered circular earth position.
G	Dugout used as CP and OP for strong point.
H	Ammunition dugout.
I	Casemate housing 105 mm gun.
ABCDE	Covered communication trench.
FGHI	Covered communication trench.
J	Personnel quarters.
K	Ammunition dugout.
51062325	Italian HMG in pillbox. See sketch B
51592197	German HMG in pillbox. See sketch B
51602192	Italian HMG in pillbox. See sketch B

OBSTACLES:

53322560) 54352598) 54952580)	These positions surrounded by a double-apron barbed wire.
52792513) 51102230)	Double apron barbed wire entanglement along beach.
51452190	Strong point surrounded by double-apron barbed wire.
50912096) 51052238)	Minefield of Italian box mines between co-ordinates.



RENSEIGNEMENTS COMPLEMENTAIRE

Les renseignements suivants ont été t
autres que ceux fournis par l'aviation de
Ils sont ici donnés dans le but de complé
concernant les défenses qui sont portées s
sélanées (collation map) et comportent ce
d'après les indications de l'interprétation
apparaissent être exacts.
Références cartographiques : "Collation S
1:25,000 ; 3

DEFENCES FIXES :

53252500	Légende du croquis du p POINTE de l'AMPHION.Voi
A	Mitrailleuse légère all découvert pour défense
B	Mitrailleuse légère ant découvert, coupe seule
C	Canon allemand de 37 m/m enterrée.
D	Mitrailleuse lourde ital enterrée circulaire et c
E	Deux abris souterrains p
F	Mitrailleuse lourde ital enterrée circulaire et c
G	Abri utilisé comme rC et pour le point d'appui.
H	Abri souterrain pour muni
I	Casemate avec canon de 1
ABCDE	Tranchée de communicatio
FGHI	Tranchée de communicatio
J	Logement du personnel.
K	Abri pour munitions.
51062325	Mitrailleuse lourde itali Voir croquis B
51592197	Mitrailleuse lourde alle Voir croquis B
51602192	Mitrailleuse lourde itali Voir croquis B

OBSTACLES:

53322560) 54352598) 54952580)	Ces positions sont entour bande de barbelés.
52792513) 51102230)	Double bande de barbelés
51452190	Point d'appui entouré d'u barbelés.
50912096) 51052238)	champ de mines entre les rilles en bois italienne.

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LEMENTAIRES DE PROVENANCE AUTRE QUE L'AVIATION DE RECONNAISSANCE

Map References

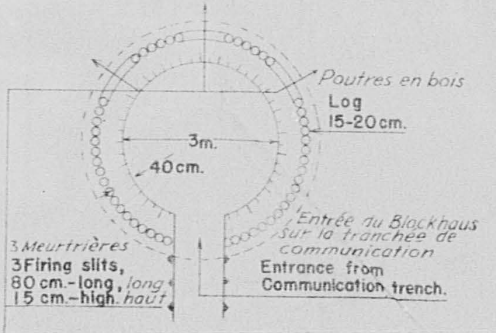
FIXED DEFENSES

53151742

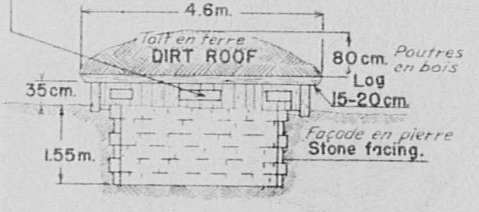
suivants ont été tirés des rapports
ner l'aviation de reconnaissance.
ne le but de compléter les informations
ceux qui sont portées sur les cartes rou-
ge) et comportant des détails qui,
de l'interprétation photographique
on.

ques : "Collation Sheet" XXXV-41, 3 ;
1:25,000 ; St THOREL (N.E.).

Plan (sans le toit) B
PLAN (with roof removed)



Coupe du Blockhaus (milieu)
ELEVATION (cross-section on centerline)



Blockhaus standard pour
Mitrailleuses lourdes
STANDARD HMG PILLBOX

ende du croquis du point d'appui sur la
NTE de l'AMPILLON. Voir croquis A

ailleuse légère allemande sur un emplacement
ouvert pour défense arrière.

ailleuse légère anti-aérienne sur emplacement
ouvert, occupé seulement le jour.

n allemand de 37 m/m anti-char dans position
rrée.

ailleuse lourde italienne dans position
rrée circulaire et couverte.

abris souterrains pour munitions.

ailleuse lourde italienne dans une position
rrée circulaire et couverte.

utilisé comme PC et poste d'observation
le point d'appui.

souterrain pour munitions.

nte avec canon de 105 m/m.

hée de communication couverte.

chée de communication couverte.

ent du personnel.

pour munitions.

illeuse lourde italienne dans blockhaus.
croquis B

illeuse lourde allemande dans blockhaus.
croquis B

illeuse lourde italienne dans blockhaus.
croquis B

positions sont entourées d'une double
de barbelés.

e bande de barbelés le long de la plage.

d'appui entouré d'une double bande de
lés.

de mines entre les coordonnées des
et bois italiennes.

Les re
autres que
Ils sont ic
concernant
seignées (c
d'après les
apparaissent

Références c

DEFENSES FIX

53151742

51251245

53751625

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TION DE RECONNAISSANCE

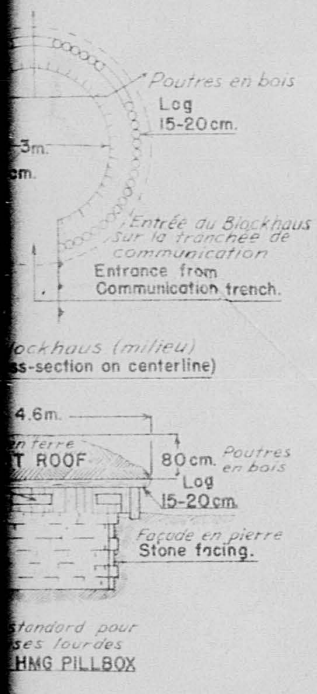
Map References : Collation Sheet XXXV - 45, 7; 1 : 25,000; ST. TROPEZ (S.E.).

FIXED DEFENSES.

53151742 M.G. position enclosed in double-apron circular wire perimeter, about 50m. in diameter. Wire is 1.2 m. high and 1.8 m. wide at base, its seaward side running along water's edge. Dried out watercourse runs through center of position.

51251245 Strongpoint enclosed by double-apron wire fence 2.5 m. wide and 1.5 m. high. Forward edge of fence within few meters of water's edge.

53751625 CAP des SALINS strongpoint enclosed with double-apron barbed wire fence on landward side.



Les renseignements suivants ont été tirés des rapports autres que ceux fournis par l'aviation de reconnaissance. Ils sont ici donnés dans le but de compléter les informations concernant les défenses qui sont portées sur les cartes renseignées (collation maps) et comportent des détails qui, d'après les indications de l'interprétation photographique apparaissent être exacts.

Références cartographiques : "Collation Sheet" XXXV - 45, 7; 1 : 25.000; ST TROPEZ (S.E.).

DEFENSES FIXES:

53151742 Emplacement de mitrailleuse entouré d'un double réseau de barbelés, sur un périmètre d'environ 50 m. de diamètre. Le réseau haut de 1 m. 20 est large de 1 m. 80 à sa base. Sa partie vers la mer touche au bord de l'eau. Le lit d'un cours d'eau desséché traverse le centre de la position.

51251245 Point d'appui entouré d'un double réseau de barbelés (Hauteur: 1 m.50; Largeur: 2 m. 50) La limite extérieure du réseau est à quelques mètres du bord de l'eau.

53751625 Point d'appui du CAP DES SALINS, entouré au côté terre d'un double réseau de barbelés.

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SECRET - TRESECRET

FRANCE 1:25,000

GENERAL TOPOGRAPHICAL NOTES

Area alternates between densely wooded hills and cultivated river valleys with hedged fields and vineyards. Widespread deployment is possible only in these valleys and on non-wooded slopes.

RENSEIGNEMENTS GENERAUX TOPOGRAPHIQUES

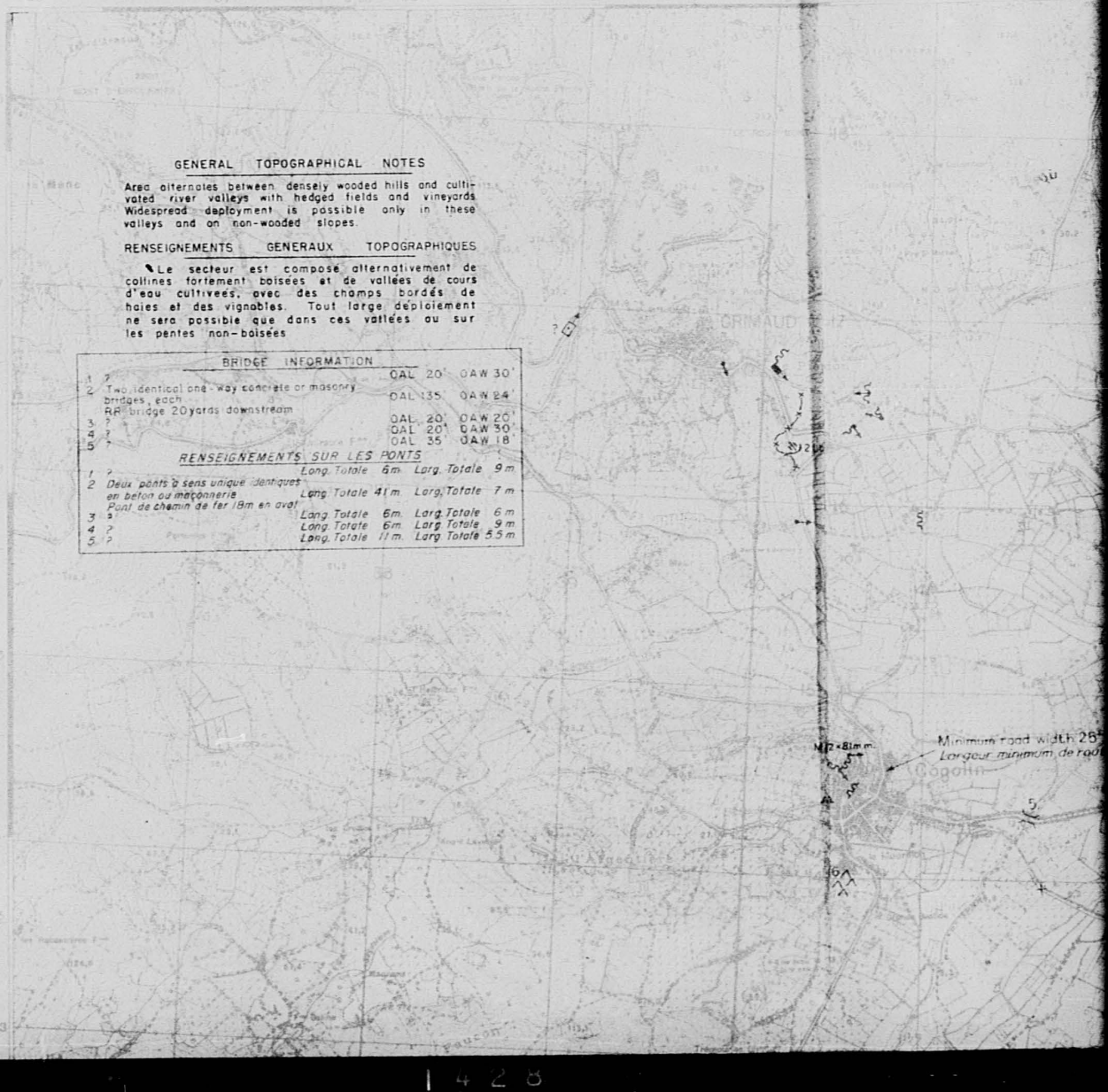
Le secteur est composé alternativement de collines fortement boisées et de vallées de cours d'eau cultivées, avec des champs bordés de haies et des vignobles. Tout large déploiement ne sera possible que dans ces vallées ou sur les pentes non-boisées

BRIDGE INFORMATION

1	?	OAL 20'	OAW 30'
2	Two identical one-way concrete or masonry bridges, each RR bridge 20 yards downstream	OAL 135'	OAW 24'
3	?	OAL 20'	OAW 20'
4	?	OAL 20'	OAW 30'
5	?	OAL 35'	OAW 18'

RENSEIGNEMENTS SUR LES PONTS

1	?	Long. Totale 6m.	Larg. Totale 9m
2	Deux ponts à sens unique identiques en beton ou maçonnerie Pont de chemin de fer 18m en aval	Long. Totale 41m.	Larg. Totale 7m
3	?	Long. Totale 6m.	Larg. Totale 6m
4	?	Long. Totale 6m.	Larg. Totale 9m
5	?	Long. Totale 11m.	Larg. Totale 5.5m



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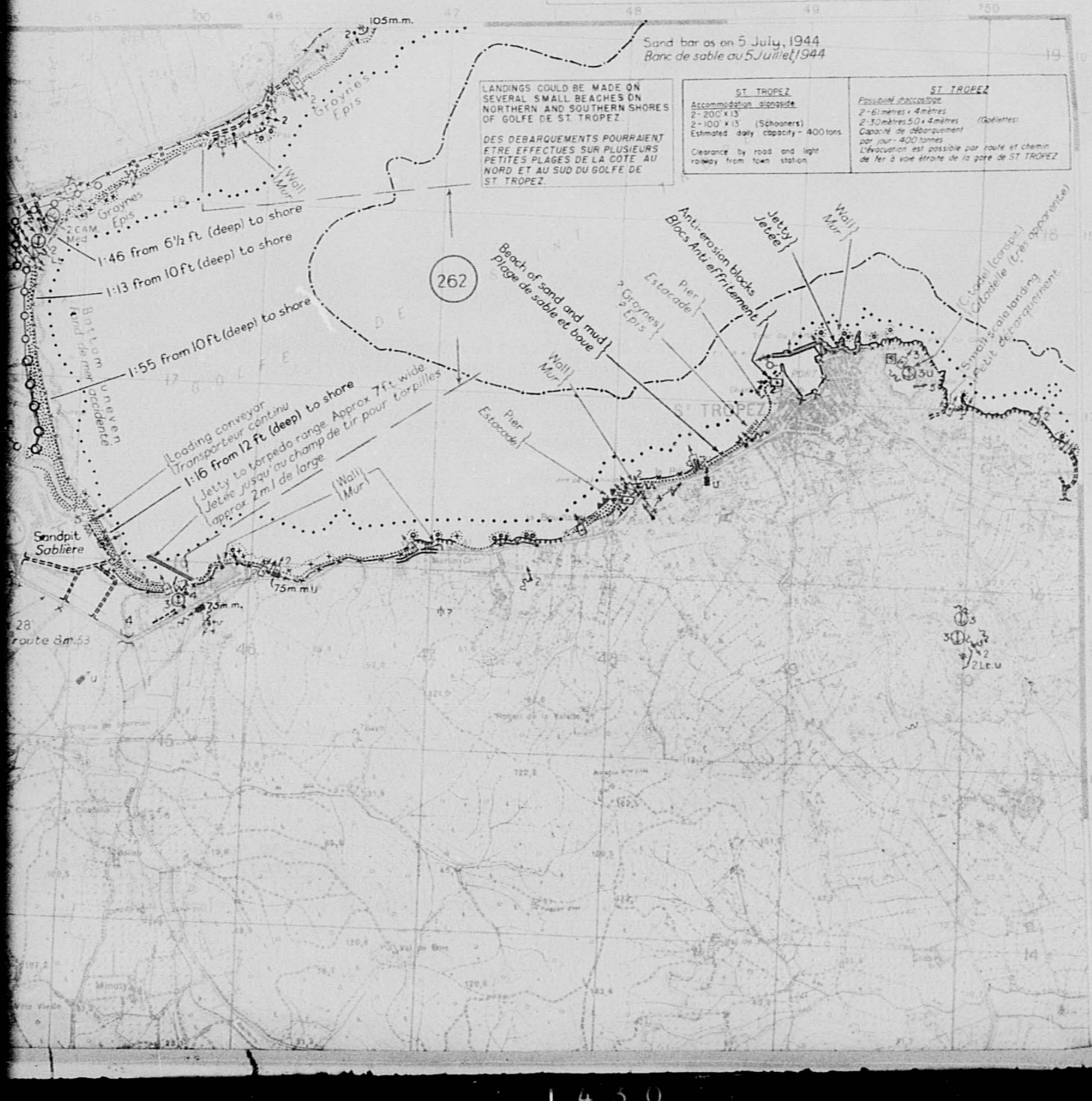


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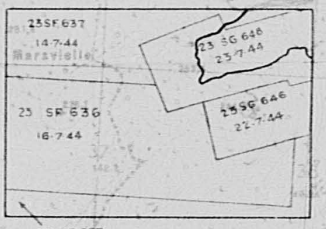


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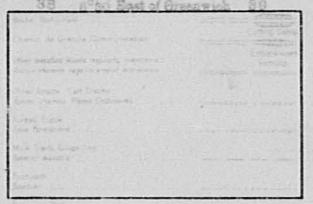
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AIR COVER DIAGRAM
DIAGRAMME DE RENSEIGNEMENTS PHOTOGRAPHIQUES



INCLINAISON DES PLAGES.
"1-44-10 FEET (DEEP) TO SHORE" SIGNIFIE QUE LA PENTE MOYENNE, DU BORD DE L'EAU A UN POINT SITUE A LA PROFONDEUR DE 3 METRES 05 AU-DESSOUS DU NIVEAU DE L'EAU, EST DE 1 METRE PAR 44 METRES.
1 PIED = 0·305 METRES.

For Beach Exit classification see map legend.
Au sujet des classifications d'issues de plages consulter la légende de la carte.



Geographical Section, General Staff, No 4411
Published by War Office 1943.

Revised by 516 Corps Field Survey Coy R.E. from Air Photographs dated Aug 43

Revisé par 516 Corps Field Survey Coy R.E. d'après photos aériennes d'Août Aug 43.

REFER TO THIS MAP AS :-
France 1:25000 sheet XXXV-46 556

DEFENCE OVERPRINT PUBLISHED ON 1 AUGUST 1944

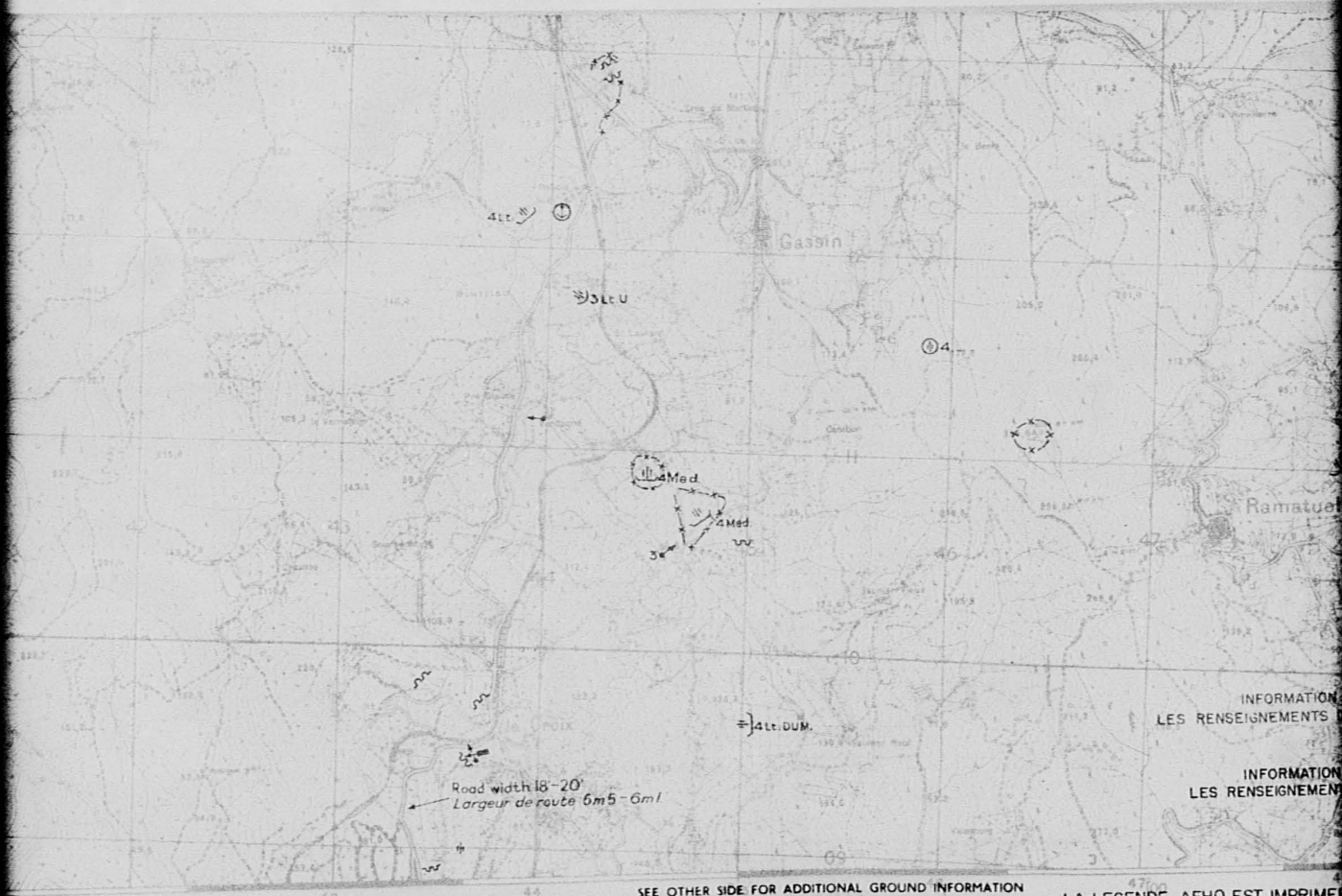
A.F. 4527

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SEE OTHER SIDE OF SHEET FOR AFHQ LEGEND.

SEE OTHER SIDE FOR ADDITIONAL GROUND INFORMATION
Voir verso pour renseignements complémentaires de provenance autres que l'aviation de reconnaissance.

LA LEGENDE AFHQ EST IMPRIMEE

INFORMATION
LES RENSEIGNEMENTS

INFORMATION
LES RENSEIGNEMEN

Contour Interval 10

FOR DETAILED INFORMATION
AREA ANALYSIS N°8, OFFIC
INTELLIGENCE ANNEXE, NAVAL

POUR PLUS AMPLES RENSE
ANALYSIS N°8' BUREAU DU
'INTELLIGENCE ANNEXE, NAVAL

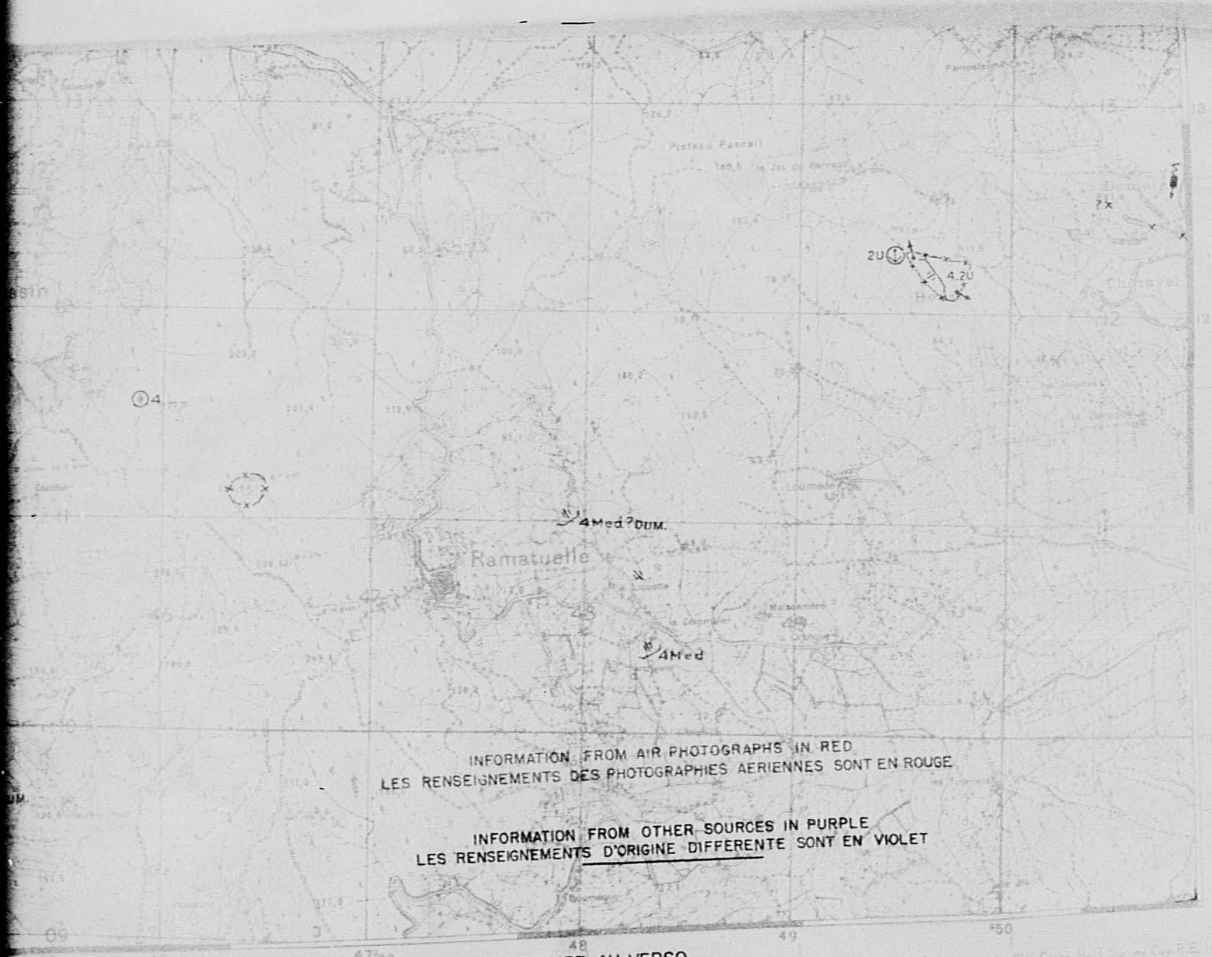
DEFENCE OVERPR
DIRECTOR
CARTE INDIQUANT LES DEFENS
LE SURVEY DIRECTORATE,

1432

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INFORMATION FROM AIR PHOTOGRAPHS IN RED.
LES RENSEIGNEMENTS DES PHOTOGRAPHIES AERIENNES SONT EN ROUGE.

INFORMATION FROM OTHER SOURCES IN PURPLE.
LES RENSEIGNEMENTS D'ORIGINE DIFFERENTE SONT EN VIOLET.

DDITIONAL GROUND INFORMATION
nents complementaires de provenance
aviation de reconnaissance.

LA LEGENDE AFHQ EST IMPRIMEE AU VERSO.

Contour Interval 10 metres. Equidistance des courbes

BEACH NUMBERS

FOR DETAILED INFORMATION ON DESCRIPTION OF BEACHES REFER TO TARGET AREA ANALYSIS N°8," OFFICE OF THE A.C. OF S. G-2, HQ, SEVENTH ARMY, AND INTELLIGENCE ANNEXE, NAVAL OPERATION PLAN.

NUMEROS DES PLAGES

POUR PLUS AMPLES RENSEIGNEMENTS AU SUJET DES PLAGES, VOIR "TARGET AREA ANALYSIS N°8" BUREAU DU S.CHEF D'EM G-2,HQ, SEPTIEME ARMEE, ET "INTELLIGENCE ANNEXE, NAVAL OPERATION PLAN."

DEFENCE OVERPRINT PUBLISHED ON 1 AUGUST 1944 BY SURVEY DIRECTORATE, AFHQ. FOR AC OF S. G-2. SEVENTH ARMY

CARTE INDIQUANT LES DEFENSES EN SUR-IMPRESSION PUBLIEE LE 1 AOUT 1944 PAR LE SURVEY DIRECTORATE, AFHQ. POUR LE SOUS-CHEF D'ETAT-MAJOR, G-2. SEPTIEME ARMEE.

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A F H Q

CONVENTIONAL SIGNS AND SYMBOL

SIGNES ET SYMBOLES CONVENTIONNELS

C.D. POSITION WITH NUMBER OF GUNS — 4
POSITION DE DEFENSE COTIERE (AVEC LE NOMBRE DE PIECES)

RAILWAY GUN
PIECE D'ALVF

HEAVY A.A. POSITION WITH NUMBER OF GUNS (H.A.A.) — 6
POSITION DE D.C.A. LOURDE (AVEC LE NOMBRE DE PIECES)

LIGHT A.A. POSITION WITH NUMBER OF GUNS (L.A.A.) — 3
POSITION DE D.C.A. LEGERE (AVEC LE NOMBRE DE PIECES)

D.P. (A.A.-C.D.) POSITION WITH NUMBER OF GUNS — 4
POSITION DE BATTERIE A DOUBLE USAGE-DEFENSE COTIERE ET DE D.C.A. (AVEC LE NOMBRE DE PIECES)

FIELD GUN POSITION WITH NUMBER OF GUNS — 2
POSITION D'ARTILLERIE DE CAMPAGNE (AVEC LE NOMBRE DE PIECES)

SINGLE GUN POSITION – FIXED
PIECE UNIQUE D'ARTILLERIE – FIXEE

SINGLE GUN POSITION – MOBILE
PIECE UNIQUE D'ARTILLERIE – MOBILE

ANTI TANK GUN
CANON ANTI CHAR

MACHINE GUN POSITION WITH NUMBER OF GUNS — 2
NID DE MITRAILLEUSES (AVEC LE NOMBRE DE PIECES)

MORTAR POSITION — M
POSITION DE MORTIER

PILLBOX
PETIT BLOCKHAUS

CASEMATE CAPABLE OF CONTAINING A LIGHT GUN
BLOCKHAUS POUR PETIT CANON

SEARCHLIGHT (S.L.)
PROJECTEUR

INFANTRY POSITIONS PROBABLY CONTAINING A.T. GUNS AND M.G's
POSITION D'INFANTERIE PROBABLEMENT AVEC CANON ANTI CHAR ET MITRAILLEUSES

STRONG POINT — S.P.
POINT D'APPUI ORGANISE

DUG-OUT — D.
TROU

ANTI TANK DITCH
FOSSE ANTI CHAR

ANTI TANK WALL
MUR ANTI CHAR

A.F.Vs. WITH NUMBERS, WHEELED — 6
VEHICULES BLINDES A ROUES (NOMBRE DE)

VEHICLE PITS — V.P.
ALVEOLES POUR VEHICULES

COMPANY H.Q.
P.C. CIE

BATTALION H.Q.
E.M. DE BATAILLON

REGIMENTAL H.Q.
E.M. DE REGIMENT

DIVISIONAL H.Q.
E.M. DE DIVISION

H.Q. UNCLASSIFIED
E.M. DE NATURE INCONNUE

COMMAND POST — C.P.
P.C.

BOOM, NETS, MARINE
BARRAGE DE FILETS

ROCK, UNDERWATER
ROCHER SUBMERGE

ROCK ABOVE WATER
ROCHER AU DESSUS DE L'EAU

2 FATHOM LINE
LIGNE DES PROFONDEURS DE 4 METRES ENVIRON

10 FATHOM LINE
LIGNE DES PROFONDEURS DE 20 METRES ENVIRON

30 FATHOM LINE
LIGNE DES PROFONDEURS DE 60 METRES ENVIRON

SAND BAR
BANC DE SABLE

WRECK
EPAVE

CLIFFS
FALAISES

ROCKY COAST
COTE ROCHEUSE

CONSTRUCTIONAL ACTIVITY — C.A.
ACTIVITE DE CONSTRUCTION

UNDER CONSTRUCTION — U.C.
EN COURS DE CONSTRUCTION

BUILDINGS: STONE OR BR
CONSTRUCTION EN PIERRE

CAMP WITH PITS AND NO
CAMP AVEC DES TROUS E

TENTS
TENTES

HOSPITAL
HOPITAL

AIRFIELD
AERODROME

LANDING GROUND
TERRAIN D'ATTERRISSAGE

SEAPLANE STATION
BASE D'HYDRAVIONS

AIRCRAFT BLAST SHELT
ALVEOLE

BARRAGE BALLOON
BALLON DE BARRAGE

LISTENING POST
POSTE D'ECOUTE

OBSERVATION POST
POSTE D'OBSERVATION

RADIO DETECTION FINDE
POSTE DE DETECTION RADI

RADIO STATION (W.T. S
STATION DE T.S.F.

WIRELESS TOWER – POL
PYLONE DE T.S.F. – POTEA

TELEPHONE WIRES ON
FILS TELEPHONIQUES POSE

TELEPHONE WIRES ON
FILS TELEPHONIQUES SUR

UNDERGROUND CABLE
CABLE SOUTERRAIN

M.T. WITH NUMBERS
VEHICULES AUTOMOBILES

A.F.Vs. WITH NUMBERS,
VEHICULES BLINDES A

BE

LES NUMEROS

ADDITION

LEGENDE S

CASEMATE

CLASSIFICATION OF GUN CALIBRES

COAST DEFENCE GUNS.

Up to and including 4·7 inch or 120 mm. ..... LIGHT
Over 4·7 inch or 120 mm. up to and including 8 inch or 205 mm. ..... MEDIUM
Over 8 inch or 205 mm. ..... HEAVY

ANTI-AIRCRAFT GUNS.

20 mm. to 50 mm. ..... LIGHT
75 mm. and over ..... HEAVY

BEACH AND UNDERWATER OBSTACLES

TETRAHEDRA, PYRAMIDS AND CUBES, UNIDENTIFIED OBJECTS — STEEL OR CONCRETE

TETRAHEDRES, PYRAMIDS ET CUBES OBJETS, NON DEFINIS, — ACIER OU BETON

WITH NO. OF ROWS.

AVEC NOMBRE DE RANGEES.

1454

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F H Q L E G E N D.

ONAL SIGNS AND SYMBOLS USED IN ANNOTATION OF MAPS, OVERLAYS AND AIR PHOTOGRAPHS

ES ET SYMBOLES CONVENTIONNELS UTILISES DANS L'ANNOTATION DES CARTES, CALQUES ET PHOTOGRAPHIES AERIENNES

BUILDINGS: STONE OR BRICK
CONSTRUCTION EN PIERRE OU EN BRIQUES

CAMP WITH PITS AND NO TENTS
CAMP AVEC DES TROUS ET PAS DE TENTES

TENTS
TENTES

HOSPITAL
HOPITAL

AIRFIELD
AERODROME

LANDING GROUND
TERRAIN D'ATTERRISSAGE

SEAPLANE STATION
BASE D'HYDRAVIONS

AIRCRAFT BLAST SHELTER
ALVEOLE

BARRAGE BALLOON
BALLON DE BARRAGE

LISTENING POST
POSTE D'ECOUTE

OBSERVATION POST
POSTE D'OBSERVATION

RADIO DETECTION FINDER (RADAR)
POSTE DE DETECTION RADIO (RADAR)

RADIO STATION (W.T. STATION)
STATION DE T.S.F.

WIRELESS TOWER — POLE
PYLONE DE T.S.F. — POTEAU D'ANTENNE

TELEPHONE WIRES ON GROUND
FILS TELEPHONIQUES POSES SUR LE SOL

TELEPHONE WIRES ON POLES
FILS TELEPHONIQUES SUR POTEAUX

UNDERGROUND CABLE
CABLE SOUTERRAIN

M.T. WITH NUMBERS
VEHICULES AUTOMOBILES (NOMBRE DE)

A.F.Vs WITH NUMBERS, TRACKED
VEHICULES BLINDES A CHENILLES (NOMBRE DE)

BEACH NUMBERS ARE INDICATED THUS:
LES NUMEROS DES PLAGES SONT INDIQUES COMME SUIT

DRAGONS TEETH WITH NUMBER OF ROWS
OBSTACLES EN PYRAMIDES AVEC LE NOMBRE DE RANGEES

HEDGEHOG
CHEVAUX DE FRISE

WIRE UNCLASSIFIED — ONE ROW — TWO ROWS — THREE ROWS etc
RESEAUX NON CLASSIFIES — UNE RANGEE — 2 RANGEES — 3 RANGEES

WIRE CONCERTINA — ONE ROW — TWO ROWS — THREE ROWS etc
RESEAU BRUN — UNE RANGEE — 2 RANGEES — 3 RANGEES

TANK TRAPS
PIEGES A CHAR

A.T. MINES
MINES ANTI CHAR

ROAD BLOCK — WITH M.G. — WITH A.T. GUN
BARRAGE DE ROUTE — AVEC MITRAILLEUSE — AVEC CANON ANTI CHAR

BRIDGE BLOWN
PONT SAUTE

BRIDGE — PREPARED FOR DEMOLITION
PONT DONT LA DESTRUCTION EST PREPAREE

WEAPON PITS (FOXHOLES) FIRE TRENCHES OR BREASTWORKS
EMPLACEMENTS D'ARMES AUTOMATIQUES, TRANCHEES DE TIR OU PARAPETS

TRENCHES WITHOUT WEAPON PITS
TRANCHEES SANS EMPLACEMENTS D'ARMES AUTOMATIQUES

SLIT TRENCHES
TRANCHEES ETROITES

NEW CONSTRUCTION OR DIGGING
CONSTRUCTIONS NOUVELLES OU TRAVAUX DE TERRASSEMENT

BLASTING
TRAVAUX DE MINES

DUMPS — AMMUNITION
DEPOT DE MUNITIONS

DUMPS — PETROL, OIL, LUBRICANTS
DEPOT DE CARBURANTS ET LUBRIFIANTS

DUMPS — SUPPLIES
DEPOT DE RAVITAILLEMENT

DUMPS — CHEMICAL GAS STORAGE
DEPOT ET RESERVOIR A GAZ

DUMPS — TYPE UNKNOWN
DEPOT DE NATURE INCONNUE

HUTS WITH NUMBERS
BARAQUEMENTS AVEC NOMBRES

OCCUPIED
OCCUPE

UNOCCUPIED
NON OCCUPE

UNSERVICEABLE
INUTILISABLE

DUAL PURPOSE
A DOUBLE USAGE

CAMOUFLAGE
CAMOUFLE

DUMMY
FACTICE

UNDERGROUND
SOUTERRAIN

MILITARY ACTIVITY
ACTIVITE MILITAIRE

ENEMY OCCUPIED
OCCUPE PAR L'ENNEMI

EXISTENCE DOUBTFUL
DOUTEUX

POSITION DOUBTFUL i.e. When more than one item
POSITION DOUTEUSE c.à.d. Lorsque signalé plus d'un

POSITION APPROXIMATE i.e. When
POSITION APPROXIMATIVE c.à.d. Lor

FIXED POSITION
POSITION FIXE

SPOT HEIGHTS
COTE D'ALTITUDE

LIGHT
LEGER(e)

MEDIUM
MOYEN (ne)

HEAVY
LOURD (e)

SUSPECTED OR POSSIBLE
SOUPÇONNE OU POSSIBLE

ADDITIONAL LEGEND (PROVISIONAL)

LEGENDE SUPPLEMENTAIRE (PROVISOIRE)

CASEMATE ..... CM.

CLASSIFICATION DE CALIBRES
ARTILLERIE DE DEFENSE COTIERE
Inférieur ou égal à 4·7 inch ou 120 mm ..... LEGER
Au dessus de 4·7 inch ou 120 mm jusqu'à 8 inch. ou 205 mm compris ..... MOYEN
Au dessus de 8 inch ou 205 mm ..... LOURD

CANONS ANTI-AERIENS
De 20 mm à 50 mm compris ..... LEGER
75 mm. et au dessus ..... LOURD

ATER OBSTACLES

OBSTACLES SUBMERGES ET SUR LA PLAGE

ELEMENT "C"
TUBULAR SCAFFOLDING, STEEL, WITH NO. OF ROWS.
OBSTACLES GENIE "DE COINTET"
ECHAFAUDAGES TUBULAIRES, ACIER, AVEC NOMBRE DE RANGEES.

STAKES OR FENCING

1435

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INDEX TO THIS MAP AS FRANCE 1:25,000 SHEET XXXV-45 SW N

G E N D

APS, OVERLAYS AND AIR PHOTOGRAPHS
ES, CALQUES ET PHOTOGRAPHIES AERIENNES

DRAGONS TEETH WITH NUMBER OF ROWS OBSTACLES EN PYRAMIDES AVEC LE NOMBRE DE RANGEES	2	OCCUPIED OCCUPE	OCC
HEDGEHOG CHEVAUX DE FRISE		UNOCCUPIED NON OCCUPE	U.
WIRE, UNCLASSIFIED - ONE ROW - TWO ROWS - THREE ROWS etc RESEAUX NON CLASSIFIES - UNE RANGEE - 2 RANGEES - 3 RANGEES		UNSERVICEABLE INUTILISABLE	U/S
WIRE, CONCERTINA - ONE ROW - TWO ROWS - THREE ROWS etc RESEAU BRUN - UNE RANGEE - 2 RANGEES - 3 RANGEES		DUAL PURPOSE A DOUBLE USAGE	D.P.
TANK TRAPS PIEGES A CHAR		CAMOUFLAGE CAMOUFLE	CAM.
A.T. MINES MINES ANTI CHAR		DUMMY FACTICE	DUM.
ROAD BLOCK - WITH M.G. - WITH A.T. GUN BARRAGE DE ROUTE - AVEC MITRAILLEUSE - AVEC CANON ANTI CHAR		UNDERGROUND SOUTERRAIN	U/G
BRIDGE BLOWN PONT SAUTE		MILITARY ACTIVITY ACTIVITE MILITAIRE	M.A.
BRIDGE - PREPARED FOR DEMOLITION PONT DONT LA DESTRUCTION EST PREPAREE		ENEMY OCCUPIED OCCUPE PAR L'ENNEMI	E.O.
WEAPON PITS (FOXHOLES) FIRE TRENCHES OR BREASTWORKS EMPLACEMENTS D'ARMES AUTOMATIQUES, TRANCHEES DE TIR OU PARAPETS		EXISTENCE DOUBTFUL DOUTEUX	E.D.
TRENCHES WITHOUT WEAPON PITS TRANCHEES SANS EMPLACEMENTS D'ARMES AUTOMATIQUES		POSITION DOUBTFUL i.e. When more than one location has been reported for one item owing to ambiguous reports POSITION DOUTEUSE c.à.d. Lorsque par suite de renseignements ambigus on a signalé plus d'un emplacement pour un element donné	P.D.
SLIT TRENCHES TRANCHEES ETROITES		POSITION APPROXIMATE i.e. When location cannot be pin-pointed POSITION APPROXIMATIVE c.à.d. Lorsque l'emplacement ne peut être restitué avec exactitude	P.A.
NEW CONSTRUCTION OR DIGGING CONSTRUCTIONS NOUVELLES OU TRAVAUX DE TERRASSEMENT		FIXED POSITION POSITION FIXE	FXD. POS.
BLASTING TRAVAUX DE MINES		SPOT HEIGHTS COTE D'ALTITUDE	187
DUMPS - AMMUNITION DEPOT DE MUNITIONS	A	LIGHT LEGER(E)	Lt.
DUMPS - PETROL, OIL, LUBRICANTS DEPOT DE CARBURANTS ET LUBRIFIANTS	P	MEDIUM MOYEN (NE)	Med.
DUMPS - SUPPLIES DEPOT DE RAVITAILLEMENT	S	HEAVY LOURD (E)	Hy.
DUMPS - CHEMICAL GAS STORAGE DEPOT ET RESERVOIR A GAZ	G	SUSPECTED OR POSSIBLE SOUPÇONNE OU POSSIBLE	?
DUMPS - TYPE UNKNOWN DEPOT DE NATURE INCONNUE	?		
HUTS WITH NUMBERS BARAQUEMENTS AVEC NOMBRES	12		

...NAL)
...SOIRE)
... GM

CLASSIFICATION DE CALIBRES
ARTILLERIE DE DEFENSE COTIERE
Inférieur ou égal à 4.7 inch ou 120 mm ..... LEGER
Au dessus de 4.7 inch ou 120 mm jusqu'à 8 inch ou 205 mm compris ..... MOYEN
Au dessus de 8 inch ou 205 mm ..... LOURD

CANONS ANTI-AERIENS
De 20 mm à 50 mm compris ..... LEGER
75 mm et au dessus ..... LOURD

OBSTACLES SUBMERGES ET SUR LA PLAGE

...DING, STEEL, WITH NO. OF ROWS
..."DE GOINTET"
...UBULAIRES, ACIER, AVEC NOMBRE DE RANGEES

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1430

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HEDGEHOG, STEEL, WITH NO. OF ROWS.
HERISSONS, ACIER, AVEC NOMBRE DE RANGEES.

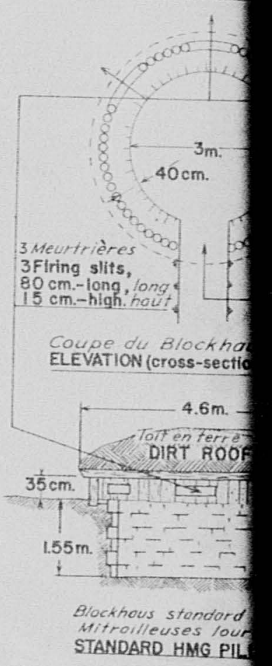
SHALLOW WATER BEACH MINES, WITH NO. OF ROWS.
MINES DE LA PLAGE EN EAUX PEU PROFONDES, AVEC NOMBR

The following information has been extracted from reports from ground sources. It is reproduced here for the purpose of amplifying the defense information furnished by the collation maps and includes items which, in conjunction with the indications of photographic interpretation, appear to be true.

Map Reference : Collation Sheet XXXV - 5, 5 & 6; 1 : 25,000; ST. TROPEZ(S.W.)

FIXED DEFENSES:

45701574	75 mm. A/T gun having fiel of fire S.W. & S.S.W.
46101593	Emplacement for 75 mm. A/T gun.
446159	Road control point. Pillbx supporting it housed 75 mm. A/T gun. Mies in area.
46451896 46411894	Italian H.M.G. in position surrounded by double-apron wire fence. See sketch below:
45961852 45951843	German H.M.G. in similar positions indicated in sketch below.
491173	Casemate housing 75 mm. gu.



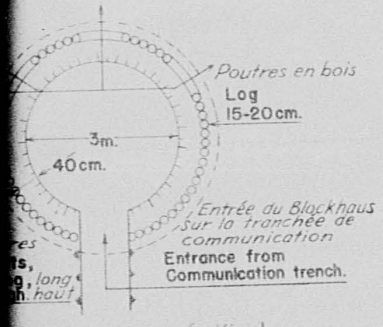
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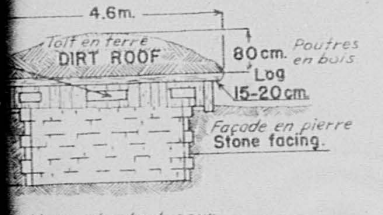
JETTED RAILS, STEEL AND WOOD, WITH NO OF ROWS.
POTEAUX OU GRILLAGES
POTEAUX INCLINES, ACIER OU BOIS, AVEC NOMBRE DE RANGEES

OF ROWS
, AVEC NOMBRE DE RANGEES.

n (sans le toit)
N (with roof removed)



e du Blockhaus (milieu)
TION (cross-section on centerline)



ockhaus standard pour
itrailleuses lourdes
TANDARD HMG PILLBOX

Les renseignements suivants ont été tirés des rapports autres que ceux fournis par l'aviation de reconnaissance. Ils sont ici donnés dans le but de compléter les informations concernant les défenses qui sont portées sur les cartes renseignées (collation maps) et comportent des détails qui, d'après les indications de l'interprétation photographique apparaissent être exacts.

Références cartographiques : "Collation Sheet" XXXV - 45, 5 & 6; 1 : 25.000; ST. TROPEZ (S.W.)

DEFENSES FIXES :

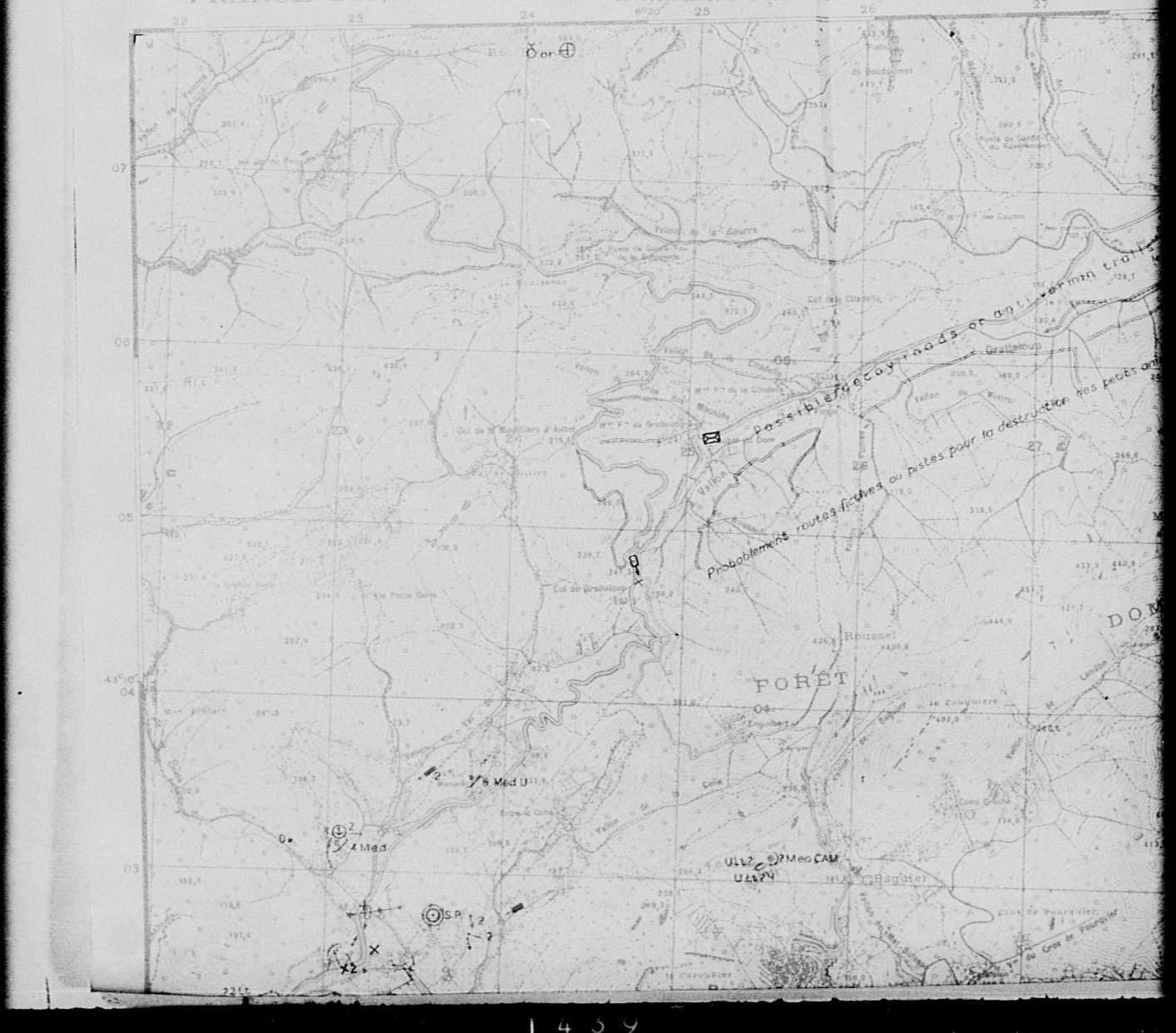
45701574	Canon antichar de 75 mm. couvrant de son feu le secteur S.O. et S.S.O.
46101593	Emplacement pour un canon antichar de 75 mm.
446159	Poste de contrôle routier. Le blockhaus qui l'appuie est muni d'un canon antichar de 75 mm. Mines dans le secteur.
46451896 46411894	Mitrailleuses lourdes italiennes dans des emplacements entourés d'un double réseau de barbeles. Voir croquis ci-dessous:
45961852 45951843	Mitrailleuses lourdes allemandes dans des emplacements analogues indiqués sur croquis ci-dessous.
491173	Casemate pourvue d'un canon de 75 mm

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SECRET – TRES SECRET


FRANCE 1:25,000
French Lambert Zone III Grid — Origin 44°06'N, 2°20'13.95"E, of Greenwich.
Carroyage Lambert Français Zone III — Origine 49°N, Méridienne de Paris.
Possible decoy roads or anti-vehicular traps
Probablement routes fictives ou pistes pour la destruction des pièges
FORÊT
Roussel
Grailloup
Col de Grailloup
Col de la Cloche
Col de la Cloche
Vallon
Ruisseau
Ruisseau de Pourquier
Ruisseau du Gros de Pourquier
Hauteur
Carrefour
Ruines
Ruines de Garde du Revenant
Ruines de Bergerie
Ruines des Cazes
Ruines de Bergerie
Ruines de Bergerie
Ruines de Bergerie

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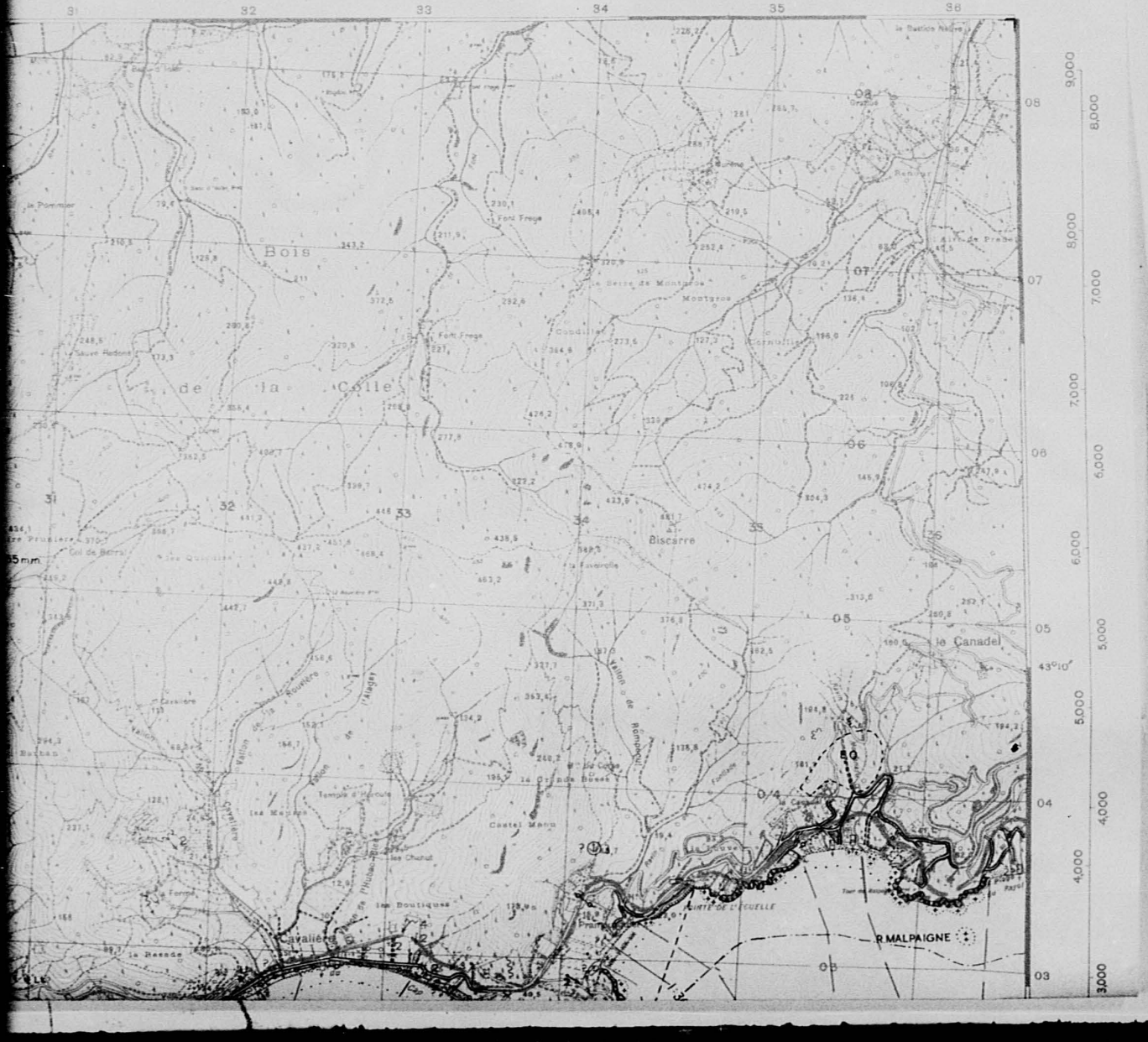
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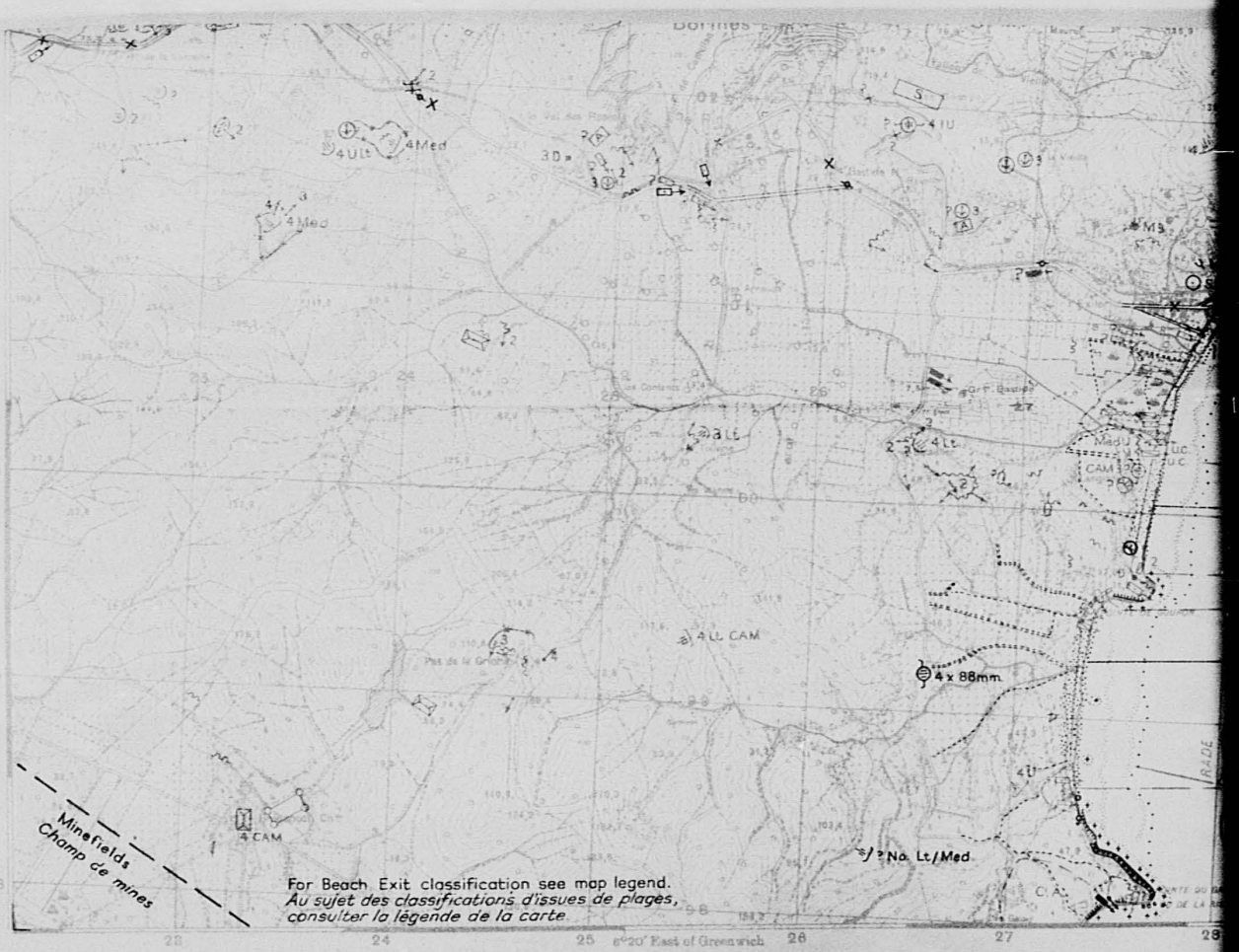
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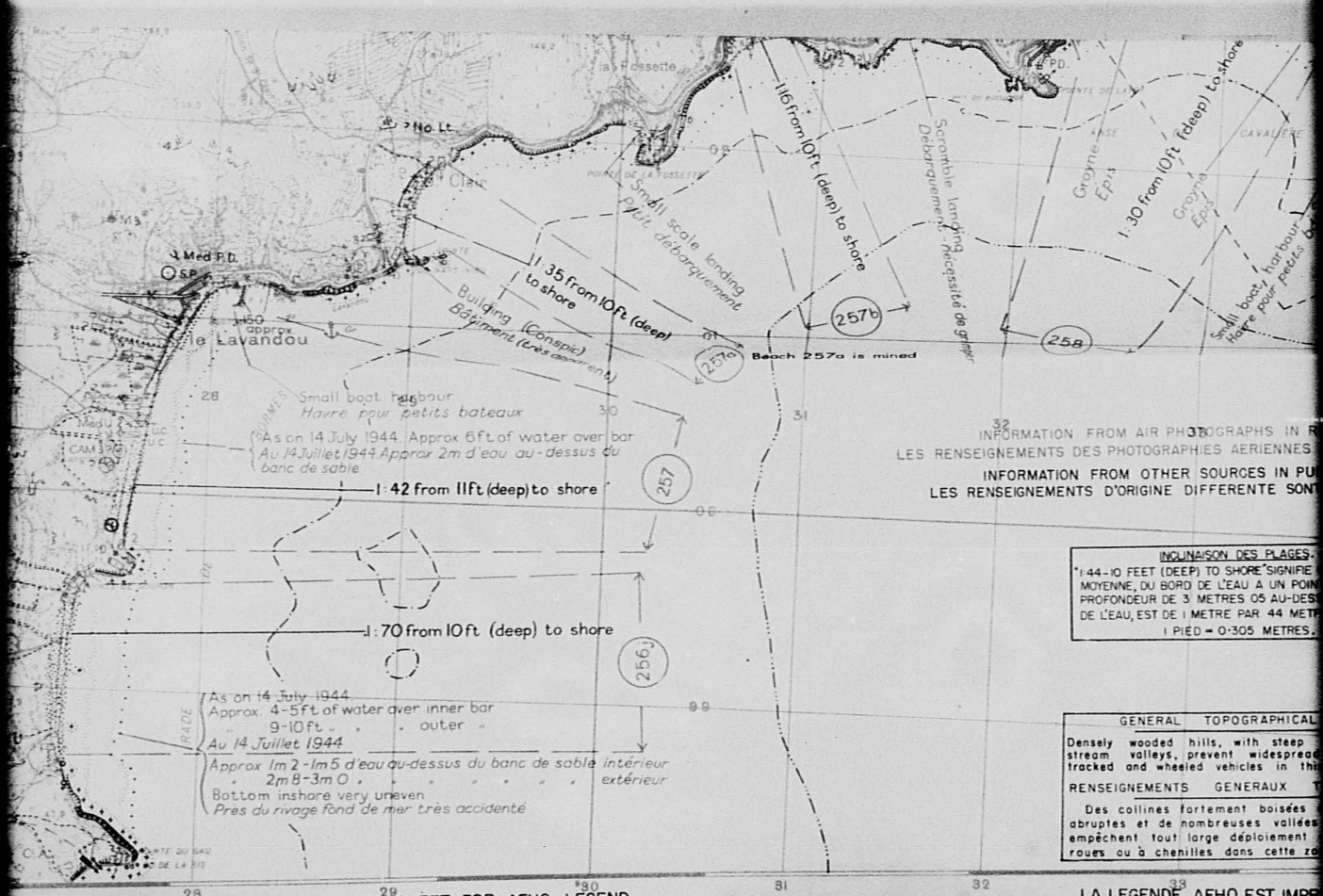
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LES RENSEIGNEMENTS DES PHOTOGRAPHIES AERIENNES

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INCLINAISON DES PLAGES

"1:44-10 FEET (DEEP) TO SHORE" SIGNIFIE
MOYENNE, DU BORD DE L'EAU A UN POIN
PROFONDEUR DE 3 METRES 05 AU-DES
DE L'EAU, EST DE 1 METRE PAR 44 METR
1 PIED = 0·305 METRES.

GENERAL TOPOGRAPHICAL

Densely wooded hills, with steep
stream valleys, prevent widespread
tracked and wheeled vehicles in thi

RENSEIGNEMENTS GENERAUX T

Des collines fortement boisées
abruptes et de nombreuses vallées
empêchent tout large déploiement
roues ou à chenilles dans cette zo

SEE OTHER SIDE OF SHEET FOR AFHQ LEGEND.

LA LEGENDE AFHQ EST IMPR

Scale 1:25,000 Echelle

Metres 1000 500 0 Kms 1 2
Yards 1000 500 0 1/4 1/2 3/4 Mile

Contour Interval 10 m

EXAMPLE OF A GRID REFERENCE ON THIS SHEET
EXEMPLE D'UN POINT DONNE DU CARROYAGE SUR CETTE CARTE

LETTER U	LETTRE U	POINT FONT FREGE
EAST	EST	NORTH NORD
Take West edge of square and read figures opposite this line on North or South margin	Partir du bord gauche du carré et lire les chiffres en face de cette ligne dans la marge Nord ou Sud	33
Estimate tenths, East of grid	Calculer les dixièmes vers l'Est	4
	Est	334
Take South edge of square and read figures opposite this line on East or West margin	Partir du bord sud du carré et lire les chiffres en face de cette ligne dans la marge, Est ou Ouest	07 2
Estimate tenths, North of grid	Calculer les dixièmes vers le Nord	072
	Nord	
REFERENCE to nearest 100m	U 334072	COORDONNEES valeur approchée aux 100m
Unit metre	Square 1,000m	Unité 1 mètre Carré 1000m
Nearest similar reference on this grid 500 km		Prendre garde que les mêmes coordonnées peuvent se repéter à partir d'une distance de 500 km

FOR DETAILED INFORM
AREA ANALYSIS N°8,"
INTELLIGENCE ANNEXE, N

POUR PLUS AMPLES RE
ANALYSIS N°8" BUREAU
"INTELLIGENCE ANNEXE,

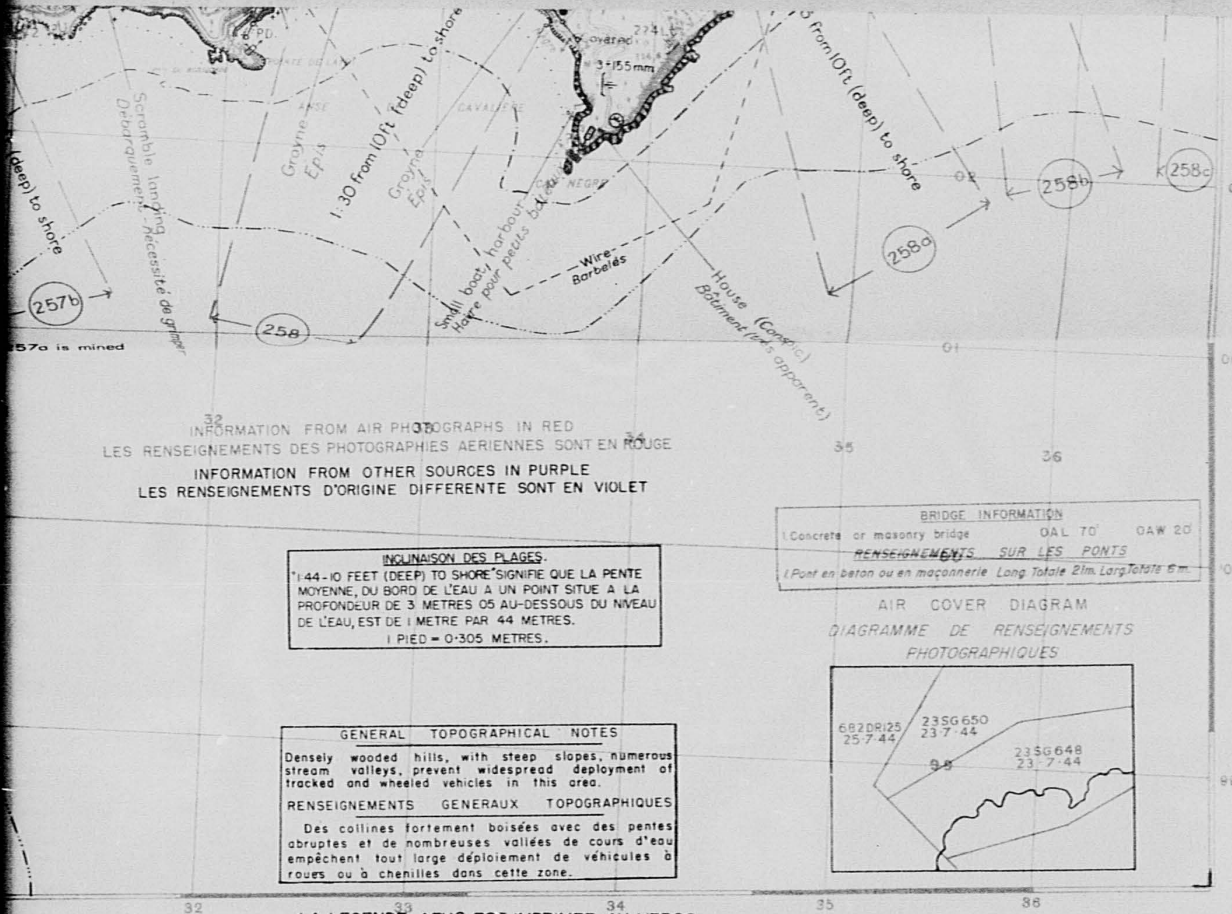
DEFENCE OVERPR
DIRECTO
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LE SURVEY DIRECTORATE,

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INCLINAISON DES PLAGES.

"1·44 - 10 FEET (DEEP) TO SHORE" SIGNIFIE QUE LA PENTE MOYENNE, DU BORD DE L'EAU A UN POINT SITUE A LA PROFONDEUR DE 3 METRES 05 AU-DESSOUS DU NIVEAU DE L'EAU, EST DE 1 METRE PAR 44 METRES.
1 PIED = 0·305 METRES.

BRIDGE INFORMATION
(Concrete or masonry bridge OAL TO' OAW 20'
RENSEIGNEMENTS SUR LES PONTS
(Pont en beton ou en maçonnerie Long Totale 21m. LargTotale 6m.

AIR COVER DIAGRAM
DIAGRAMME DE RENSEIGNEMENTS PHOTOGRAPHIQUES

GENERAL TOPOGRAPHICAL NOTES

Densely wooded hills, with steep slopes, numerous stream valleys, prevent widespread deployment of tracked and wheeled vehicles in this area.

RENSEIGNEMENTS GENERAUX TOPOGRAPHIQUES

Des collines fortement boisées avec des pentes abruptes et de nombreuses vallées de cours d'eau empêchent tout large déploiement de véhicules à roues ou à chenilles dans cette zone.

LA LEGENDE AFHQ EST IMPRIMEE AU VERSO.

00 Echelle

Contour Interval 10 metres Equidistance des courbes

Reproduced by 516 Corps Field Survey Coy R.E. July 1944

BEACH NUMBERS

FOR DETAILED INFORMATION ON DESCRIPTION OF BEACHES REFER TO TARGET AREA ANALYSIS No 8, OFFICE OF THE A.C. OF S. G-2 HQ, SEVENTH ARMY, AND INTELLIGENCE ANNEXE, NAVAL OPERATION PLAN.

NUMEROS DES PLAGES

POUR PLUS AMPLES RENSEIGNEMENTS AU SUJET DES PLAGES, VOIR "TABLET AREA ANALYSIS No 8" BUREAU DU S.CHEF D'EM G-2 HQ, SEPTIEME ARMEE, ET "INTELLIGENCE ANNEXE, NAVAL OPERATION PLAN"

DEFENCE OVERPRINT PUBLISHED ON 1 AUGUST 1944 BY SURVEY DIRECTORATE, AFHQ. FOR A.C. OF S. G-2. SEVENTH ARMY

CARTE INDIQUANT LES DEFENSES EN SUR-IMPRESSION PUBLIEE LE 1 AOUT 1944 PAR LE SURVEY DIRECTORATE, AFHQ. POUR LE SOUS-CHEF D'ETAT-MAJOR, G-2 SEPTIEME ARMEE

HYERES 3&4 FRANCE
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Appendix No 4
to
Annex No 2
to
Field Order No 12

POLITICAL AND ECONOMIC CONDITIONS IN FRANCE

HEALTH AND SANITATION

WEATHER

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T O P S E C R E T BIGOT - ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

Appendix No 4
to
Annex No 2
to
Field Order No 12

25 July 1944

ECONOMIC AND POLITICAL CONDITIONS IN FRANCE

Pre-Armistice Background

1. Constitution — is the shortest of any country containing only 26 articles. It was drawn up in 1875 directly after the Revolution.

2. Parliament

a. President is elected for a term of seven years. His is the authority to nominate the Prime Minister and to nominate and determine the number of Ministers.

b. The Senate has 314 members. It is the body of electors consisting of the representatives of the smaller country districts and is inherently conservative. Members, who must be over 40 years old, are elected for nine years. Approximately one third of the senators are elected every three years.

c. Chamber of Deputies has 618 members. There is one member for every arrondissement. Deputies must be 25 years old or over and are elected for a term of 4 years.

d. Each house elects a president, six vice presidents, 12 secretaries and 3 "questeurs" (administrative duties).

e. The Assemblee Nationale is the two houses sitting as one body. The two bodies sitting together to elect the President are known as the Congress and each member has one vote.

3. Administration

a. Bureaux — these are the staffs of the government ministers. Each minister also has a Cabinet which acts as a check on the bureaux.

b. Conseil d'Etat is composed of specialists who assist the government in high administrative problems. In an advisory capacity they draw up rules for public administration of new laws. The results of their deliberations are always secret.

c. The country is divided into 90 sections called departments. (Forty of these departments are in the south.) The deparment's principal official is the prefet assisted by a general secretary and a Conseil de Prefecture. The Conseil General is the council of the department.

d. The departments are divided into sections called arrondissement, headed by a sous-prefet and a Conseil d'arrondissement.

e. The canton is a territorial division in whose chief township are the offices of all the local officials.

f. The commune, the smallest administrative section, has a maire elected by the municipal council. There are 38,000 communes in France.

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g. Paris is in an administrative category all its own. It has 20 arrondissements divided into 4 quartiers. There is no maire of Paris but the city has two officials, the Prefet de la Seine and the Prefet de la Police. Each arrondissement has an official called a "Mayor" who is more or less a chief administrative clerk.

4. Police. The police has two main branches, the Police Administrative and the Police Judiciaire. In practice they overlap.

a. The Police Administrative is known as the General Police when it is looking after State interests and the Municipal Police when it is looking after the interests of the commune. The Mayors are the main police authorities with Municipal Police under their authority. In towns of more than 5000 the Commissaires de Police are at the disposal of the Mayor. Police headquarters (Commissariats de Police) have commissaires and police constables — agents de police, sergents de ville, gardiens de la paix. Large towns have commissaires centraux where several police superintendents are needed. Large towns like Paris, Lyons, Toulon, have special police set-ups. Rural areas have specialists serving as game and forest wardens. The Police Mobile are the liaison unit between rural and municipal police. They are divided into Brigades Regionales de la Police Mobile and are directly under the authority of the Surete Nationale. The Surete Nationale is directly administered by the Ministry of the Interior. Its agents are known as Inspecteurs de la Surete and wear plain clothes.

b. Police Judiciaire. Whereas the administrative police have as their primary duty the insurance of the observance of the law and the maintenance of order, the Police Judiciaire deal with collecting evidence and issuing warrants for the arrest of offenders. It includes the agents des douanes (customs), agents des postes, gendarmes, and brigadiers de gendarmerie. The term "proces verbaux" is the general term for police reports.

c. Gendarmerie. The Gendarmerie is directly under the Ministry of War. It has three groups whose members are at the disposal of both administrative and judicial police.

(1) Gendarmerie Departementale de l'Interieur has brigades of 5 to 7 men which are found in the arrondissements.

(2) Garde Republicaine found in Paris. Has three infantry battalions with four squadrons of cavalry. It is made up of recently discharged servicemen.

(3) Garde Republicaine Mobile is situated near large centers of population. It assists in the breakup of riots, etc.

5. Political Parties. The question of political parties has always been a complicated one. Actually there are no organized political parties, no party discipline or restrictions. Groups range from the Right or reactionary to the very liberal Left. The average French political party could be described as a "group of people with substantially the same opinions who had accepted the same program but who were under no obligation to vote with their party." Because of the vast number of parties it was practically impossible for any one party to obtain a majority in the chamber. The Senate's right of veto often further nullified decisions of the Chamber and petty internal disputes often obscured vital issues. Consistently involved in the political question is the attitude for or against the Church -- clericalism and anti-clericalism. In general, the pre-Armistice parties could be classed as follows:

a. Right

1. U.R.D. (Union Republicaine Democratique (Louis Marin) is the most important party of the Right. It is supported by the extra parliamentary leagues:

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Action Francaise (Charles Maurras)
Jeunesse Patriotes (Pierre Taittinger)
Solidarite Francaise (Francois Coty)
Croix de Feu (Francois de la Rocque) (Parti Social Francais)
Francisme (Marcel Bucard)
Parti Populaire Francais (Jacques Doriot) (grown in importance since the fall of France)
C.S.A.R. (Comites Secretes d'Action Revolutionnaire) (Cagoule) (Pozzo di Borgo)

These organizations are all reputedly Fascist.

b. Centre

Alliance Democratique (Flandin)
Parti Democrate Populaire (Auguste Champetier de Ribes) (strongly organized)

c. Left

Neo Socialiste (Deat)
Front Commun (Parti Frontiste) (Bergery)
Gauche Independante (Jeune Republique)
Union Socialiste Republicaine (Painleve, Briand, Boncour) (numbered many influential deputies in its ranks.)
Radical Socialists -- old and popular party, supposedly the typical French party. It represents the petit bourgeois, the small freeholder, the "petites gens" (little people). (Clemenceau was a member of this party.)
S.F.I.O. (Section Francaise de l'Internationale Ouvriere) (Socialist) (Leon Blum). This party was supported by the C.G.T. (Confederation Generale du Travail).
Front Populaire -- was an election program adopted in 1936 by the Socialists and most of the Ardical and Left Wing candidates. It brought the Socialists under Leon Blum into power. The Blum government was later succeeded by the Daladier government which had the support but not the participation of the Socialists.
Section Francaise de l'Internationale Communiste (broke away from the S.F.I.O. to follow the dictates of the Soviet Republic (Marcel Cachin, Duclos, Marty and Maurice Thorez.)

France Since June 1940

The "armistice" between France and Germany was signed in June 1940. The original plan was to have the armistice signed by General Weygand, thus placing the blame for France's downfall at the doors of the army. Weygand refused. Blum's government then decided to entrust the premiership to Marshal Petain the "Victor of Verdun". Petain nominated the defeatists Laval and Marquet as Ministers of State. The resident general of Tunisia, Peyrouton, known for his strong-arm tactics, was called to Vichy to set up a political police system. Paul Reynaud and Mandel, two prominent political figures, who wished to continue the struggle with Germany were imprisoned. The Assembly met on 9 July at Vichy with one quarter of the members absent due to the machinations of the Germans and the lack of transport between Africa and France. 569 members voted for the Marshl who became the chief of the French State and thus brought an end to the Third Republic.

Thus Petain became the virtual dictator of all France with Laval appointed as his successor. The Marshal was dreaming of a France less great politically and industrially but more important as an agrarian nation of a high moral order. Laval, on the other hand, considered that France would be great in her association with Germany in the European New Order. The weaknesses which France, of necessity, showed in the execution of the Armistice forced England to make decisions which were distressing and which Vichy propaganda cleverly used with the object of destroying all feeling of Franco-British sympathy in France. Both Petain and Laval

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were rudely surprised in the interview at Montoire 25/26 October 1940 when Hitler announced his program for the ruthless exploitation of France for the duration of the war. On 13 December 1940 Petain had Laval arrested after a violent argument in the course of which Laval pointed out to Petain that without Laval he (Petain) was a mere puppet. In the ensuing period when Petain was trying to continue his policy of collaboration assisted by Admiral Darlan, General Huntziger and Pierre Flandin, Otto Abetz, as Hitler's representative, declared that any resumption of collaboration depended on Laval's reinstatement. Admiral Darlan, in the meantime, was insistent on the preservation of his fleet, the instrument of his power. In the period that followed, anti-Semitism along Nazi lines, made its appearance, an attempt was made to suppress workers' unions, the police force was increased, particularly under the ill-fated Pucheu, Minister of the Interior, economic production was almost paralyzed by the progressive increase in German demands for raw materials, the communal liberties were abolished and a regime of appointed mayors was inaugurated. There also followed the unhappy Syrian campaign, and the concessions to the Japanese in Indo China. An attempt was made to maintain freindly relations between Vichy and the United States, relying on the traditional friendship between the two countries and the personal popularity of President Roosevelt in France as the champion of democracy. During the period, General Weygand put up a valiant struggle to maintain some of the old French principles but was finally forced into semi-retirement at Grasse in November 1941. In February 1942, came the fiasco of the Riom trial which was suspended principally as a result of the heroic courage with which Daladier, Leon Blum, and Guy la Chambre defended their case. The trial served to prove that France's defeat was due principally to a lack of tanks and aircraft and not to a general French decadence as was maintained by the Nazis. On 19 April 1942, it was announced that the French government was now being run by a Petain-Laval-Darlan triumvirate. On Laval's shoulders rests the blame for the "releve", the "voluntary" departure of workers for Germany which gradually developed into a mass deportation of workers into Germany. Laval also formed his own personal army the S.O.L. (Service d'Ordre Legionnaire) and resistance of the people against Laval's dictatorship became increasingly stronger. In August 1941, Laval was seriously wounded by a young Frenchmen as he reviewed a contingent of Frenchmen in German uniform. The Anglo-American landings in North Africa in November 1942 and the scuttling of the fleet in Toulon along with the total occupation of France succeeded in uniting the French people in a spirit of resistance and a desire for liberation.

German Military Administration

The Germans themselves do not administer France but they control the French administrative system which is run from Vichy.

On 7 July 1944 Field Marshall von Kluge replaced Field Marshall von Rundstedt commander-in-chief of Army Group D, who commanded the operational troops in France and also bore the title Oberbefeldshaber West. This incumbent appears to exercise considerable authority over German administration in France. The total number of Germans in France, of all arms and services, is probably in the neighborhood of 850,000.

General von Stülpnagel is head of the administration in the North zone with his headquarters in Paris. He is responsible for maintenance of order and for promulgating and enforcing the decrees of the occupying powers. His staff is divided into two main branches, the Kommandostab which directly controls the system of Kommandaturen (official links between the French people and the occupying troops) and the Verwaltungstab which is purely administrative.

The Nord and Pas-de-Calais districts were not included under von Stülpnagel's authority but were administered by General von Falkenhausen whose headquarters are in Brussels and whose authority extends over North France and Belgium.

The exploitation of France in the interests of the Reich is supervised by the Wehrwirtschafts und Rüstungsstab (Wi-Rü) which comes directly under the supervision of the German Armistice Commission.

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Local Administration

1. The North Zone now appears to be split in three districts (Bezirke) controlled from Dijon, Saint-Germain and Angers respectively. They are commanded by Befehlshaber with the status of Corps Commanders. At every departmental chef-lieu is a Feldkommandantur commanded by a colonel with the status of regimental commander. In the arrondissements are the Kreiskommandanturen. In towns considered of military importance are the Ortskommandanturen. The Kommandanturen are responsible for the security of the army and they have their own military tribunals at which Frenchmen can be tried for offenses against the occupying troops.

2. In the South, not very much is known of the administrative system under General Niehoff although it appears that Haupvergindunsstäbe have been set up at regional chefs-lieux. These are equivalent to and have the same function as intermediaries between the German troops and French authorities as the Kommandanturen. Feldkommandanturen have been identified at Lyons and Marseille.

3. Police. Apart from the ordinary military police, the Germans have a complete police system under the command of the Höherer SS and Polizeiführer whose authority extends over the whole of France except the Nord and Pas-de-Calais. The German police make every effort to work through the French and throw on them as much as possible of the work and consequent odium.

4. Armistice Commissions have been used by the Germans for any purpose that suits their convenience. They have affected every phase of French life and have made themselves one of the strongest parts of the German machine for the subjection of France. In general, the German method is to control the top and supervise the lower levels but to take no part in the detailed aspects of administration. Most of the key administrative positions in France are filled by collaborationists.

Youth Organizations

Immediately after the armistice attempts were made to deal with the youth question. Nearly all the men who began the youth movements were men animated by a strong sense of civic duty. They were associated with Vichy at first but events have proven that the majority of them was not pro-Vichy in reality. The youth movements are numerous. Following are the most important:

Chantiers de la Jeunesse -- compulsory form of national service for all Frenchmen between the ages of 18 and 22.
Ecole des Cadres.
Chantiers de Jeunesse de la Marine.
Jeunesse et Montagne.
Compagnons de France -- do work generally useful to community.
Jeunesse de France et d'outre Mer (collaborationist)
Auberges de la Jeunesse et Camarades de la Route.
Action Catholique -- Jeunesse Ouvriere Chretienne
Jeunesse Ouvriere Chretienne Feminine
Federation Francaise des Etudiants Catholiques
Scouts -- Scouts de France, Guides de France, Federation des Eclaireurs Unionistes, Association des Eclaireurs de France, Federation Francaise des Eclaireuses, Federation des Eclaireurs Israelites.

In general, the youth movements, part from Scouts and some of the well-established Catholic associations have failed, not because of bad organization, lack of funds or false ideals, but through their link with Vichy.

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Parties Organized in the South

In the South, the Fascist, pro-German groups have made little headway. The Parti Populaire Francais, under the name of Mouvement Populaire Francais, has managed to operate extensively but its greatest strength still lies in the North. The Francistes have a slight organization and there are a number of centers of the Groupe Collaboration. Since the armistice two parties of the Right have thriven — the Action Francaise and the Parti Social Francais renamed the Progres Social Francais (in deference to the Vichy decree dissolving all political parties in 1940). Of the parties which are not avowedly pro-German, the Action Francaise has been the most successful in maintaining its identity. Among the minor branches of the Mouvement Populaire Francais, the most important is the Artisans de Devoir Patriotique. Les Amis du Marechal is a group whose primary aim is to promote adherence to Petain. Among the parties not officially recognized are: the Monarchists, whose leader, the Comte de Paris, has stated that France has much to benefit from an Allied victory although he has also expressed pro-Axis and pro-Laval sentiments; the Radical Socialists who wage a conflict with Vichy on a political and doctrinal basis; the French Communist Party which has always been loyal to international Communism under Soviet leadership. This latter group has official links with de Gaulle in the Front National de Lutte pour l'Independance de la France and the Francs-Tireurs et Partisans.

La Legion Francaise des Combattants

After August 1941, this group changed its name to the Legion Francaise des Combattants et Volontaires de la Revolution Nationale with the purpose of serving the principles of the National Revolution and ensuring their application in all spheres. (At the beginning of 1942 the Service d'Ordre Legionnaire or S.O.L. was created at the instance of Joseph Darnand.) The Legion covers the whole of the South zone and all its decisions on the national plane must be officially sanctioned by the Marshal, immediately assisted by Lava. The whole thing is a complicated heirarchy, a system in which each man is appointed by his immediate superior. The network of the Legion spreads to the smallest commune. Recently, the once strong Legion has suffered from a high rate of resignations and a great falling-off in zeal. A definite movement of disintegration seems to exist.

Service d'Ordre Legionnaire

This para military organization of the Legion broke away from it in January 1943 and became the Milice Francaise under the leadership of Darnand and his secretary-general, Noel de Tissot. It was placed under the control of the Ministry of the Interior with Darnand as leader and Laval as supreme commander. The operational organization of the S.O.L. is very similar to that of the old Croix de Feu. The S.O.L. was reputed to have motorized sections with motor cyclists and trucks mounted with sub-machine guns. The S.O.L. was primarily pro-Vichy, anti-Jewish, and anti-Masonic.

La Milice Francaise

Having as its basis the old S.O.L. the Milice has definitely supplanted it. In January 1943, Petain declared that the Milice would be, apart from the police, the only force capable of maintaining order. Preparation for this in case of invasion or of serious internal troubles has been its main activity. La Milice was placed under Laval as Supreme Commander. Its main source of revenue is 200,000,000 francs a year provided by the government. The administration of the Milice is similar to that of the Legion. Each administrative region of the country is a regional federation of the Milice. Members, who must be non-Jewish, French by birth, are said to number about 30,000. They are reported to have the arms which were originally intended for the Gendarmerie and are well provided with light and heavy trucks and motorcycles. The Francs Gardes are a picked group from the Milice, forming a highly trained and politically reliable mobile force. They are mostly young, tough, and irresponsible, moulded by a political training which stresses hatred of so many things. In case of invasion, the main duty of the Milice would be chiefly to fight the resistance groups. There are detailed plans for the occupation of prefectures, police stations and post offices, and for the arrest of suspects. The majority of the French, aroused by

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the arrogant and rowdy activities of the Milice, maintain a hostile attitude toward them. In January 1944, Darnand, the leader of the Milice, was made Secretary General for the maintenance of Order with powers over the police. This enormously increased the importance of the Milice whose activities against its opponents, particularly the Maquis, immediately increased.

French Military Formations

1. On 5 September 1941, the first contingent of an Anti-Bolshevik Legion was sent to the Eastern front. When Doriot, of the Parti Populaire Francais, joined the Legion as a sergeant, he was followed by a considerable number of PPF members who formed a high proportion of officers and NCO's of the Anti-Bolshevik Legion. On 22 June 1942 the name was changed to the Legion Tricolore and officially recognized by law. The reason for this was Laval's desire to increase government control over what threatened to be a politically controlled organization. Then it was dissolved in January 1943 and renamed the Legion des Volontaires Francais which was to confine its activities to the war against Russia. Recruits wear French uniform when in France but on the Eastern front, at German insistence, they wear German uniform. Despite privileges offered, special financial remuneration, and allowances, the recruiting program for the LVF has been a failure fundamentally because the majority of Frenchmen recognizes that it has been inspired by the conqueror and is essentially anti-national. As a part of its organization it has a Service d'Etudes dt de Documentation whose two primary aims are to seek out and frustrate all Anglo-Saxon agents and to discover all individuals and organizations adhering to Communism or Gaullism.

2. AA Units -- The formation of new French AA units has not been popular. Volunteers have been few and compulsion doesn't seem to have been successfully employed. Originally the AA formation was to consist of some 15,000 men with a German liaison officer attached to each group. As a result of air attacks on trains in Northern France the French and German have devised a Wagon D.C.A. (railway AA) which can be attached to the locomotive. The AA gun is mounted on a flat truck. A railway artillery camp has been set up at Neuvy Pailloux near Issoudun where troops are instructed in the use of the German 88mm gun. It was also announced that the French AA force would consist of: listening and lookout posts; 22 heavy batteries of four 7.5cm guns and two 2.5cm guns; twelve light batteries of twelve 2.5cm guns and three searchlight batteries of nine 150 or 120cm searchlights.

3. The First Regiment of France (Phalange d'Auvergne) is made up mostly from men of the armistice army and is controlled through the Secretariat of Defence by Laval, himself. The First Regiment is composed of 2 infantry battalions and 1 mixed battalion. It is commanded by Colonel Berlon who is notoriously pro-German. Each of the two infantry battalions is divided into three rifle companies and one machine gun company. The rifle companies are divided into combat sections and armed with sub-machine guns and machine pistols. The machine gun companies, equipped with nine heavy machine guns, are divided into five sections. The mixed battalion has one cavalry group of two squadrons, motor cycle units, a motorized group with machine guns mounted on trucks, sappers, signals, transport and sanitary services. There is also an artillery unit equipped with eight field guns (75 and 105mm). Recruitment for the First Regiment has not been a signal success. By September 1943 it was reported that only 700 volunteers had enlisted.

4. The French Waffen SS -- Apparently the recruiting propaganda for this branch has been comparatively successful. Successful candidates spend a short time at a training barracks near Paris before leaving for further training in Germany. Candidates are required to be between 17 and 40 years of age, to be "Aryan", have a clean police record, minimum height of five feet three inches and be generally fit for military service. It was reported at the beginning of October that Joseph Darnand, head of the Vichy Milice and fourteen of his senior officers had volunteered to serve with the Waffen SS. There appear to be two receiving depots, one near Paris and one near Pau. The Germans are attempting to create an ambitious force of numbers of shock troops for political warfare. Most of the French recruits are extreme collaborationists.

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5. N.S.K.K. (Nationalsozialistiche Kraftfahrkorps), the motor transport unit, inaugurated a French group in July 1942 under the patronage of Hitler and Petain. Many French volunteers are trained in Belgium. The higher officers are mainly German and there have been reports that French companies which are usually sent to Russia have been employed mainly as labour units and not as drivers.

Underground

The much-publicized "Maquis" is apparently that portion of the French underground which is taking an active part in the campaign against the Nazi forces. It includes those factions who are actually engaging certain elements of the enemy armed organization.

The Francs-Tireurs et Partisans (F.T.P.) are the principal guerilla forces of French resistance and are largely under the domination of the Communist party. However, the attempt has been to organize resistance without limiting the numbers to membership in the Communist party. Therefore the F.T.P. remain non-political both in their activities and in their propaganda. According to "La Vie du Parti", the party is aiming to incorporate twenty per cent of its members in the guerilla troops. There is no reliable information on the strength of the F.T.P. It is believed that the force is composed of 30,000 men taking part in present operations and that it has a potential strength of 150,000. The majority of the members lives a normal life and only come together as a part of an armed force to carry out specific tasks. These consist principally of attacks on lines of communications, sabotage, the filling of German soldiers, and burning of enemy supplies. The F.T.P. regularly publish accounts of their activities in the clandestine press. It is difficult to check the reliability of these claims but there is a good deal of evidence that a constant harassing action against the enemy has been effectively maintained. The F.T.P. are run by a Comite Militaire Nationale which gives orders to regional groups and the lower commands are in the hands of ex-officers and NCO's.

In the underground press the Catholic clandestine press has taken on considerable importance. "Amitie" is published underground by the editors of the suppressed "Temps Nouveau". The "Cahiers du Temoignage Chretien", published with the cooperation of the Protestants, are among the most prominent and influential of clandestine publications.

In France there has been a rebirth of the old revolutionary French spirit, a renascence of its faith in liberty and an invincible determination to bring back to her people their once hard-won freedom.

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T O P S E C R E T BIGOT - ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

25 July 1944

METEOROLOGICAL INFORMATION AND WEATHER FOR MONTHS OF AUGUST AND SEPTEMBER

GENERAL

The weather that can be expected in areas from the eastern coast of SPAIN to CORSICA and SARDINIA, in the GULF OF LIONS, and along the FRENCH RIVIERA, the TYRRHENIAN SEA, the GULF OF GENOA and LIGURIAN SEA, during the months of July and August, is exceptionally favorable for amphibious operations. They are the two months out of the year when the weather is at its best in these areas. However, September can be considered favorable being very much like that of the month of June.

There is a well defined system of offshore and onshore breezes which are important. Land breeze usually starts at sunset and increases to a maximum at daybreak. The sea breeze is variable but usually follows the direction of the sun. Starting during early morning, it increases in intensity during the day, and at times reaches force 5 in the afternoon, being strong enough at this time to present the possibility of interference with landing operations for a period of one or two hours. Mirages in the area are frequent and usually take the form of a distortion of the shoreline.

CLOUDS AND CEILINGS

During the summer months only about 6 to 15 days per season could be expected to be overcast and then the ceilings would be generally 2500 to 5000 feet or better. Clear to scattered fair weather cumulus and some intermediate clouds is the predominating state of the sky. At MARSEILLES the winds that bring clouds of any great amount are from the NW and E while at NICE they occur chiefly with the sea breeze and when it is calm. During the latter portion of the afternoon and early evening is when the greatest cloud cover will usually form.

RAINFALL

July, August, and September are the driest months in the year in this region, with nearly all the precipitation being in the form of showers and thundershowers of short duration. Along towards the latter part of September, it is possible but not probable, that precipitation would occur in the form of a 24 hour rainy spell but the showers and thunderstorms would be heavy rather than light to moderate and occur more frequently. The average total rainfall, and number of days with rain, are:

		Rain (inches)	Rainy Days
MARSEILLES:			
	July	0.50	5
	Aug	0.94	4
	Sept	2.34	6
CANNES:			
	July	0.50	3
	Aug	0.90	3
	Sept	2.30	5
NICE			
	July	0.39	5
	Aug	1.00	5
	Sept	2.57	8

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THUNDERSTORMS

Thunderstorms are the most frequent in late summer and autumn, each month from August to October bringing two or three as a rule. Storms of a frontal type predominate. The onset of the "Mistral" is accompanied by thunderstorms from time to time and there may be a recurrence with the passage of succeeding cold fronts. Gales from the SE may also be heralded and accompanied by thunder. Heavy rain or hail can occur in these storms but the most violent type most generally occur in the latter part of September and in October.

Temperature*	July	August	September
		MARSEILLES	
Extreme maximum	100	101	92
Mean daily maximum	83	82	77
Mean daily minimum	61	60	56
Extreme minimum	47	47	41
		CANNES	
Extreme maximum	95	95	90
Mean daily maximum	83	82	77
Mean daily minimum	65	65	61
Extreme minimum	48	51	44
		NICE	
Extreme maximum	95	93	90
Mean daily maximum	82	81	76
Mean daily minimum	63	62	59
Extreme minimum	53	51	45

* Figures taken from a period of from 10 to 100 years.

TIDES AND CURRENTS

(1) The range of the tide is so small at both MARSEILLES and TOULON that though the range of the tide (0.6 for springs) is listed in the Tide Tables, the times are not given.

(2) The currents are mostly wind driven, and are therefore weak and irregular with the greatest velocities found along the coasts. The coastal currents have a mean velocity of about 1 knot; when a strong wind, above 25 knots, blows, it may attain 2 knots. Eastward of CAP SICIE, the current usually sets westward in response to the prevailing wind; but, in the GULF OF FREJUS, a counter-current setting eastward is to be expected. In the vicinity of CAP CORSE the currents usually set eastward; but, if a strong northerly wind is blowing in the GULF OF GENOA, the current runs south. Similarly, from CAP CROISETTE to ILES d'HYERES, a set to the eastward of 1 to 2 knots will be experienced with mistral winds.

CONDITIONS FOR LAYING SMOKE

Favorable conditions for the laying of smoke require (1) onshore winds, and (2) stability of the air to prevent vertical dissipation, caused by vertical currents. The wind directions being governed mostly by the land and sea breezes in the great majority of cases, the following conditions may be expected:

(1) Nearly calm 0600 to 1000 with an on-shore drift
(2) On-shore winds increasing from 1000 to 1300
(3) On-shore winds of 12-16 knots 1300 to 1600
(4) Gradual veering to parallel coastline and diminishing of wind from 1600 to sunset .
(5) Nearly calm sunset to 2300
(6) Off-shore wind 2300 to 0600

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VISIBILITY

Haze (2 - 5 miles) is very prevalent during July, August, and September, but occurs mainly from about the beginning of morning twilight until 0800 local time; occasionally it has been observed at 1300, but never at 1800. The normal visibility exceeds 10 miles on about two days in three at 1300 and 1800. It is appreciably less good at 0700. Fog was never recorded at NICE and vicinity MARSEILLES during a period of about four years. However, it is possible for fog patches to occur but their persistence would be very short-lived, not over 3 hours in duration, nor would they occur later than 0900. Over the open sea visibility is appreciably better and it is estimated that 90% of the time it is 5 miles or better and rarely less than 2 miles. Fog would occur in the form of patches and probably be less than 1%.

DAILY ALMANAC TOULON Area

Date	Beginning	Sunrise	Sunset	Ending Evening Twilight	Moonrise	Moonset	Phase of Moon
Aug							
1	0224	0425	1859	2058	1626	0102	
2	0226	0426	1858	2056	1727	0154	
3	0228	0427	1856	2054	1822	0254	
4	0230	0428	1855	2052	1910	0404	Full
5	0232	0429	1854	2050	1951	0519	
6	0233	0430	1852	2048	2027	0636	
7	0235	0431	1851	2046	2101	0753	
8	0237	0433	1850	2045	2132	0907	
9	0239	0434	1848	2043	2203	1021	
10	0240	0435	1847	2040	2235	1133	
11	0242	0436	1845	2038	2308	1242	Last Quarter
12	0244	0437	1844	2036	2346	1349	
13	0246	0438	1843	2034		1452	
14	0247	0439	1842	2031	0029	1550	
15	0249	0440	1840	2029	0117	1642	
16	0251	0441	1838	2027	0210	1727	
17	0253	0442	1837	2025	0307	1806	
18	0255	0444	1835	2023	0405	1840	New
19	0256	0445	1833	2021	0504	1910	
20	0258	0446	1832	2018	0604	1937	
21	0300	0447	1830	2016	0703	2002	
22	0302	0448	1829	2014	0801	2026	
23	0303	0449	1827	2012	0901	2050	
24	0305	0450	1825	2010	1000	2116	
25	0307	0451	1824	2008	1101	2144	
26	0309	0452	1822	2006	1203	2217	First Quarter
27	0310	0453	1821	2004	1306	2255	
28	0311	0454	1819	2002	1409	2340	
29	0312	0456	1817	1959	1510		
30	0314	0457	1816	1957	1608	0035	
31	0315	0458	1814	1955	1658	0139	

Present table is Z time; for B time add 2 hours

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T O P S E C R E T BIGOT - ANVIL

HEADQUARTERS THIRD INFANTRY DIVISION
A. P. O. # 3 U. S. ARMY

25 July 1944

HEALTH AND SANITATION

The public health situation in Southern France is potentially grave as a consequence of the war, the flooding of successive waves of refugees into and through the area, the subsequent military occupation, and the severe shortage of hospital facilities, medical personnel, and all kinds of food, drugs and medical supplies. The diseases which must be considered are the following:

1. Venereal Diseases. The breakdown of civil controls over prostitution has greatly increased the incidence of venereal diseases. In 1931 ten per cent of the French population was reported to have syphilis.

2. Malaria. The mosquito vector of malaria is present in large numbers, especially in the coastal areas. Suppressive atabrine prophylaris, mosquito repellent, and the usual anti-malaria measures will have to be continued until next Fall.

3. Diarrhoeas and Dysenteries. The generally backward state of French sanitary engineering and the prevalent laxity in sewage disposal make contamination of food and water inevitable. Hence, all sources of water will have to be chlorinated before use by troops.

Only the large towns and cities have piped sewage systems. The small towns and villages depend, for the most part, upon cesspools, or else the sewage is dumped into open gutters which drain directly into the streams. Latrines in the rural districts are of the outdoor type and not fly-proofed. Hence, our anti-fly campaign must be continuous and relentless.

Night soil and sludge, even from the village cesspools, are commonly used for fertilizer. This fact emphasizes the need for careful inspection of all agricultural products. No local produce will be used for food unless authorized by this headquarters.

It should be remembered that the inhabitants of France are immune to the harmful effects of their water and food from repeated exposure to them but the American soldier is not immune.

4. Typhoid and Paratyphoid Fevers. Numerous reports indicate that typhoid and paratyphoid fevers are very prevalent, especially in the port cities. The frequent contamination of water affords a favorable avenue for spreading these diseases.

5. Typhus and Other Insect-Borne Diseases. Recent reports indicate the presence of epidemic typhus fever, endemic typhus fever, dengue and tick-born Marseille fever (fievre boutonneuse), all as yet on a small scale but potentially a hazard.

6. Undulant Fever. Is transmitted in the milk and cheese from goats and sheep and in water contaminated by these animals.

7. Infectious Jaundice. Rats, the carriers of infectious jaundice (leptospirosis) are widespread and are known to harbor the causative agent of this disease in many areas.

8. Other Diseases. Smallpox, scarlet fever, and measles are not uncommon. Cerobrospinal meningitis is more or less endemic. Skin diseases, especially scabies, are common and reflect the shortage of soap and sanitary facilities. Since there is always a fairly high incidence of such respiratory diseases as pneumonia, influenza, etc., ordinary precautions against exposure should be maintained.

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BIGOT-ANVIL

Appendix No 5
to
Annex No 2
to
Field Order No 12

INTERROGATION OF PRISONERS OF WAR AND EXAMINATION
OF CAPTURED DOCUMENTS AND ENEMY MATERIEL

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Appendix No 5
to
Annex No 2
to
Field Order No 12

25 July 1944

Interrogation of Prisoners of War and Examination of Captured Documents and Enemy Materiel

1. Interrogation of Prisoners of War has proved to be a most important means of obtaining information of the enemy. In order to exploit to the fullest this source of intelligence and not to jeopardize its value to higher headquarters the following instructions will be observed:

   a. From the time of capture, prisoners of war will be treated and handled in an absolutely military manner. It is of utmost importance to successful interrogation that prisoners are afforded no opportunity which will aid them in regaining their normalcy. Fraternization of our troops with prisoners of war tends to mollify the psychological effect of battle-shock and capture, which condition facilitates the work of the interrogator. Troops used as guards and PW escorts must be made aware of this fact. Prisoners are to be searched immediately upon capture and disarmed of any instrument that could serve as a weapon. Documents, soldbuchs, maps, and personal papers are to be left on the prisoner until he arrives at the regimental cage and special alertness is to be exercised by the guards to prevent the prisoner from destroying anything he has on his person. Officers, NCO's and EM will be segregated and prevented from communicating with one another prior and subsequent to regimental interrogation.

   b. Interrogation at regiment will be directed at obtaining information of immediate tactical value to the unit concerned. The interrogators will keep frequent contact and work in close liaison with the regimental S-2. The regimental S-2 will direct and supervise the activities of the interrogators; will keep the interrogators continuously informed of the tactical situation; will provide the interrogators with necessary maps and mosaics; will report immediately to his CO and to the A C of S, G-2, any information obtained from prisoner of war interrogation. Prisoners of war who should be interrogated in greater detail at Division IPW should have this fact noted on the PW tag. PW's will be evacuated to Div PW Cage as rapidly as possible.

   c. Interrogation at division will be directed at obtaining information which will assist the division in accomplishing its assigned mission. The division interrogator will keep frequent contact and work in close liaison with the office of the A C of S, G-2. The A C of S, G-2, will direct and supervise the work of the division and regimental IPW teams. Spot reports of information obtained from PW's will be made to the A C of S, G-2, by the most rapid, available means.

2. Interrogation of civilians should prove to be an important means of obtaining information of the enemy. It is contemplated that language interpreters will be made available to the regiments and to the division. Civilians will be interrogated by IPW personnel or S-2's with the assistance of the language interpreter in the same manner as prisoners of war, with appropriate modifications. Enemy information obtained will be reported through proper channels to the A C of S, G-2. Suspected individuals or known enemy collaborators will be evacuated through normal PW channels and referred to the Division CIC by the Provost Marshal for investigation. Allied personnel, who have escaped from the enemy, will be interrogated in accordance with the same principles.

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3. Captured Documents

a. Captured enemy documents are an important source of information of the enemy. The A C of S, G-2, has at his disposal a team of document experts, whose work is the continuous piecing-together of bits of information extracted from documents. Insignificant-looking scraps of paper often contain information, which, if made available for examination by trained document personnel, may reveal intelligence material of vital importance. The procedure listed here will be followed in the handling of captured documents.

b. Documents found on PW's.

Documents found on PWs will be left on the person of the prisoner until he has been escorted to the regimental interrogation point. There, regimental interrogation personnel will make a search of the prisoner for documents, and after examination of documents found all documents will be forwarded by the escort guard O.C. together with the PW to the division PW Cage. Documents taken from different PWs must be kept segregated. All escort guard personnel will be cautioned to be alert to attempts by the PW to destroy or dispose of documents while en route to the regimental interrogation point. The "soldbuch" (paybook) will not be removed from the PW at any level, except for a quick examination. Upon completion of the examination, the "soldbuch" will be returned to the PW.

c. Documents removed from enemy dead: All documents removed from enemy dead will be bundled together, tagged to indicate place of capture (map coordinates) time of capture and capturing unit. They will then be forwarded to the Document Section, Div PW Cage by quickest possible means.

d. Documents recovered from captured enemy CP's, etc.

All documents recovered from captured enemy CP's, bivouacs, positions, etc., will be bundled together, tagged to indicate complete circumstances of capture, to include time, location (map coordinates), capturing unit, and will be forwarded to Document Section, Division PW Cage by quickest possible means.

4. Examination of Enemy Materiel

a. All materiel captured from or abandoned by the enemy will be immediately reported to the A C of S, G-2. The A C of S, G-2, will notify Special Staff Sections concerned, who will examine the materiel as soon as possible and render a report of the examination to the A C of S, G-2. Evacuation will be made through proper service channel.

b. Enemy aircraft, which have been forced or shot down, will be seized immediately by the unit nearest the location of the plane. An armed guard will be placed on the plane and the A C of S, G-2, will be notified immediately of the location and time of crash, together with any pertinent circumstances.

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*Date: 1 August 44 *
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HQ 3D INF DIV REINF
NAPLES ITALY
1 AUGUST 1944

ANNEX 3 a
TO
FIELD ORDER 12

TROOP LIST

Third Infantry Division (Reinf)
Organization for combat

1. Hq & Hq Co, 3d Inf Div
   Naval Combat Int Team
   Air Support Control Party
   PW Interrogators
   Battle Order Personnel
   CIC Personnel
   Securite Militaire
   OSS Personnel
   Photo Interpreters
   Civil Affairs Personnel

2. 3rd Signal Co (- Dets)
   Det 163rd Sig Photo Co
   Det D - 1 SIAM 315ls Sig Mon Co

3. 3rd Recn Troop

4. Troop C (Reinf) 117th Cav Recn Sq (Mczd)

5. 7th Infantry
   Co A, 756th Tk Bn
   Co A, 601st TD Bn
   Co A, 3rd Chem Bn
   Co A, 10th Engr Bn (Initially)
   Co A, 3rd Med Bn
   10th FA Bn (Initially)
   Naval Shore Fire Control Party
   Det 6617th Mine Clr Co (Gapping Team)
   Det 3rd Sig Co
   PW Interrogating Team

6. 15th Infantry
   Co B, 756th Tk Bn
   Co B, 601st TD Bn
   Co B, 3rd Chem Bn
   Co B, 10th Engr Bn (Initially)
   Co B, 3rd Med Bn
   33th FA Bn (Initially)
   Naval Shore Fire Control Party
   Det 6617th Mine Clr Co (Gapping Team)
   Det 3rd Sig Co
   PW Interrogating Team

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7. 30th Infantry
   - Co C, 3rd Chem Bn
   - Co C, 3rd Med Bn
   - Det 3rd Sig Co
   - PW Interrogating Team

8. 3rd Division Artillery
   - 9th FA Bn
   - 41st FA Bn
   - 634th FA Bn (155mm How)
   - 36th FA Bn (155mm Gun)
   - 69th Armd FA Bn
   - Det 2nd FA Obsn Bn
   - Naval Gunfire Liaison
   - Naval Shore Fire Control Parties

9. 756th Tank Bn (- Co's A & B)

10. 601st TD Bn (- Co's A & B)

11. 3rd Chemical Bn (- Co's A, B & C)
    - Det 6th Chem Dep Co
    - Det 11th Chem Maint Co

12. 10th Engr Bn (- Co's A & B)
    - 2nd Bn 343rd Engr GS Regt
    - Det Treadway Bridge Co (378th Engr Bn(Sep)

13. 703rd Ord Co

14. Hq & Hq Det 43rd Ord Bn
    - 14th Ord (MM) Co
    - 3432nd Ord (MM) Co
    - 64th Ord Ammo Co
    - 143rd Ord Bomb Disp Sq
    - Det 261st Ord (MM) Co (AA)
    - Det 87th Ord (Hv M) Tk Co

15. 3rd Med Bn (- Co's A, B & C)
    - 10th Fd Hosp (- Hosp Unit)(- 12 Nurses)
      - 670 3rd Blood Transfusion Unit(Fwd Dist Sec
    - Det 2nd Aux Surg Group (- 12 Nurses)
      - 5 Gen Surg Teams (No's 2,3,10,12,21)
      - 1 Thoracic Team (No. 1)
      - 1 Shock Team (No. 6)
      - 1 Neuro Team (No. 2)
      - 1 Orthopedic Team (No. 1)
      - 1 Maxille Facial Team (No. 1)
      - 1 Dental Prosthetic Team

16. 95th Evac Hosp (+ 24 Nurses)

17. 3rd QM Co
    - 1st Plat, 46th QM GR Co
    - 379th Repl Co (600 Repl)

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18. Beach Group
- 36th Engr C Regt
- 1st Naval Beach Bn
- 72nd Sig Co (Spec)
- Det 207th Sig Dep Co + Det 177th Sig Rep Co
- Hq & Hq Det 52nd Med Bn
  - 376th Med Coll Co
  - 377th Med Coll Co
  - 378th Med Coll Co
  - 682nd Med Clr Co
  - 616th Med Clr Co (- 1 Plat)
- 1 Sec 377th PW Escort Gd Co
- Det Boat Guards
  - 157th MP PW Det
  - 706th MP PW Det
  - 730th L MP PW Det
- Co A 759th MP Bn
- 1st Plat 21st Cml Decon Co (Smoke Troops)
- Det 63rd Cml Dep Co
- 3rd Plat 450th Engr Dep Co
- Hq & Hq Det 530th QM Bn
  - 4133rd QM Sv Co
  - 4134th QM Sv Co
  - 4135th QM Sv Co
  - 4136th QM Sv Co
  - 3277th QM Sv Co
- 3357th QM Trk Co
- 3634th QM Trk Co
- Det 6690th Regulating Co
- Hq & Hq Det 52nd QM Bn (Mbl)
  - 3333rd QM Trk Co (DUKW)
  - 3334th QM Trk Co (DUKW)
  - 3335th QM Trk Co (DUKW)
  - 3336th QM Trk Co (DUKW)
  - 3353rd QM Trk Co (DUKW)(Personnel only)
  - 3355th QM Trk Co (DUKW)(Personnel only)
- 1 Sec 3856th QM Gas Sup Co
- Plat 93rd QM Rhd Co
- 332nd Air Force Sv Gp (Beach Detail)
- 111th RAF Beach Sec (Brick Unit)
- 69th Ord Ammo Co
- 3407th Ord M Auto Maint Co (DUKW)
- Det 77th Ord Dep Co
- Det 377th Ord Dep Co

19. Navy Troops
- 16 Combat Demolition Units.

O'DANIEL
COMDG

OFFICIAL:

CONNOR
G-3

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	S E C R E T
Auth:	CG, 3rd Inf Div:
Init:	AOG
Date:	17 July 1944

Hqs 3rd Inf Div
Naples, Italy
1 August 1944

ADDENDA NO. 1
ANNEX #3b
TO FIELD ORDER #12.

LCT 20

Add	1	3/4-ton Truck	3rd Div. MP Plat
Delete	1	M8 Car	117 Recon Sqd

LCT 33

Add	1	1/4-ton C&R	601st TD Bn
Add	1	1/4-ton C&R	117 Recon Sqd

LCT 34

Delete	1	3/4-ton Truck	3rd Div MP Plat
Add	1	M8 Car	117 Recon Sqd

LST 201

Delete	1	1/4-ton C&R	43 Ord Bn
Delete	1	1/4-ton Trailer	43 Ord Bn
Add	1	3/4-ton	43 Ord Bn

LST 209

Add	1	D-4 Dozer	41st F.A. Bn.

LST 212

Delete	1	M15 AAA	441st AAA Bn
Add	1	Halftrack	441st AAA Bn

LST 214

Delete	2	2½-ton Truck	3rd QM Co
Add	2	Halftrack	756th Tank Bn

LST 215

Delete	1	Halftrack	441st AAA Bn
Add	1	M15 AAA	441st AAA Bn

LST 216

Delete	4	2½-ton Truck	3rd QM Co
Add	4	Tank (M)	756th Tank Bn

LST 217

Delete	4	Tank (M)	756th Tank Bn
Delete	2	Halftrack	756th Tank Bn
Add	6	2½-ton Truck	3rd QM Co

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LST 222

Delete	1	2½-ton Truck	Public Relations
Add	1	2½-ton Truck	3rd Div Hqs
Delete	2	Car, M8	3rd Recon Trp
Add	2	Halftrack	3rd Recon Trp

C-4 (Beecher)

Delete	4	2½-ton	3rd QM Co
Add	4	2½-ton	601st TD Bn
Delete	2	1/4-ton C&R	15th Infantry
Add	2	1/4-ton C&R	343 Engr Regt

C-5 (McHenry)

Delete	2	2½-ton	703rd Ord Co
Delete	1	1-ton Trailer	703rd Ord Co
Add	1	2½-ton	261 Ord Co
Add	1	1-ton Trailer	261 Ord Co
Add	1	2½-ton	87th Ord Co

C-8 (Rush)

Delete	2	2½-ton	530 QM Sv Bn
Add	2	2½-ton	69th F.A.Bn
Delete	1	3/4-ton	703rd Ord Co
Add	1	3/4-ton (Smoke)	36th Engr

C-9 (Eells)

Delete	2	1/4-ton C&R	30th Infantry
Add	1	1/4-ton C&R	Air Force
Add	1	1/4-ton C&R	95th Evac Hosp.

C-10 (Burleson)

Delete	1	3/4-ton	703rd Ord Co
Add	1	3/4-ton	77 Ord Dep
Delete	2	1/4-ton C&R	7th Infantry
Add	2	1/4-ton C&R	36th F. Bn
Delete	2	3/4-ton	601st TD Bn
Delete	1	3/4-ton	3rd QM Co
Add	3	3/4-ton (Smoke)	36th Engr

C-14 (Thurston)

Add	10	1/4-ton C&R	3rd Chem Bn
Add	10	1/4-ton Trailer	3rd Chem Bn
Delete	2	2½-ton	14th Ord Co
Delete	2	3/4-ton	6617 Mine Clr Co
Add	2	1-ton Trailer	95th Evac Hosp
Add	2	2½-ton	87th Ord Co.

C-15 (Henrico)

Delete Entire Vehicle Load.

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Cmdg

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CONNOR
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Auth: CG, 3d Inf Div
Init: [illegible]
Date: 14 July 1944

Hq 3d Inf Div
Naples, Italy
1 August 1944

ANNEX 3b TO FIELD ORDER NUMBER 12

COVER SHEET

THIS ANNEX CONSISTS OF VEHICLE LIFT
3D INF DIV (REINF), PAGES 1 TO 20 INCL.

O'DANIEL

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ANNEX #3 (b) VEHICLE CHART - ASSAULT
LCT - LIFT

UNIT	VEHICLE	LCT 16	LCT 17	LCT 18	LCT 23	LCT 24	LCT 25	LCT 26	LCT 27	LCT 31	LCT 32	LCT 33	LCT 34
DIV HQ CO	¼ T Trk										4	4	
	3/4 T Trk											3	
	2½ T Trk										1	1	
	¼ T Tlr										1	1	
	1 T Tlr										1	1	
MP PLAT	¼ T Trk										2	2	
	3/4 T Trk											2	
3RD RCN TRP	¼ T Trk	7	6	6									
	Gen MS	3	3	3									
	¼ T Tlr	1	2	2									
7TH INF REGT	¼ T Trk							29					
	¼ T Tlr							7					
15TH INF REGT	¼ T Trk									29			
	¼ T Tlr									7			
30TH INF REGT	¼ T Trk								29				
	¼ T Tlr								7				
IRON BACK ENTRY	NONE												
3RD SIG CO	¼ T Trk						2	2	2		9	5	
	3/4 T Trk						1	1	1		1	4	
	2½ T Tlr										2	2	
3RD QM CO	NONE												
703RD ORD CO	NONE												
17TH ENGR BN	¼ T Trk										1		
3RD MED BN	NONE												

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ANNEX #3 (CONT'D)
LCT - LIFT

UNIT	VEHICLE	LCT 16	LCT 17	LCT 18	LCT 23	LCT 24	LCT 25	LCT 26	LCT 27	LCT 31	LCT 32	LCT 33	LCT 34
	¼ T Trk				1	1	2						
DIV ARTY-HQ BTRY	3/4 T Trk				1	2	2						
	1½ T Trk				1								
9TH FA BN	¼ T Trk					1	3						
	3/4 T Trk						1						
10TH FA BN	¼ T Trk				6			4					
	3/4 T Trk				9								
39TH FA BN	¼ T Trk							4		7			
	3/4 T Trk									9			
41ST FA BN	¼ T Trk					6			4				
	3/4 T Trk					9							
ASFCP	1/4 T Trk						7				3		
NSFCP	1/4 T Trk						6				3		

1408

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ANNEX #3 (b) (Cont'd) LCT - LIFT

UNIT	VEHICLES	LCT 1	LCT 2	LCT 4	LCT 5	LCT 13	LCT 14	LCT 15	LCT 16	LCT 17	LCT 18	LCT 19	LCT 20	LCT 21	LCT 22	LCT 24	LCT 25	LCT 26	LCT 27	LCT 28	LCT 29	LCT 30	LCT
601 TD Bn	M10	2		2																3	2	2	
	¾ T Trk																			2		2	
756 Tk Bn	Half Track																			2			
	Med Tk			4		4			1	1	1	1	1	1	1					4			
	¼ T Trk																						
	Half Track								1			1											
441 AAA Bn	M15 AAA									3	4	4		3	4	4							
	¼ T Tlr								1	1	1		1	1	1								
3rd Cml Bn	None																						
36th FA Bn	¼ T Trk																2						
2 FA Obs Bn	¼ T Trk																1						
5 AAA Gp	None																						
534 AAA Bn	None																						
72 AAA Bn	None																						
104 BB Btry	None																						
Plat 46 QM	None																						
10th F Hosp	None																						
14th Ord Co	None																						
	¼ T Trk				3		4	7					3										
69 FA Bn	¾ T Trk							1															
	M7				6	4	2						6										
	Half Track				3	4	6						4				4						
634 FA Bn	¼ T Trk																						
43 Cml	None																						
	¼ T Trk												7	6	6								
117 Ron Sq	M8 Car												3	3	3								
	Motorcycle												1	1									
	¼ T Tlr												1	2	2								

1409

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ANNEX #3 (b) (cont'd)

LCT - LIFT

UNIT	VEHICLES	LCT 7	LCT 8	LCT 9	LCT 10	LCT 11	LCT 12	LCT 1	LCT 4	LCT 25	LCT 26	LCT 27	LCT 31	LCT 32	LCT 33	LCT 34	LCT 13	LCT 14
36 Engr Regt	1/4 T Trk	3	2	3	2	3	2											
	DUKW	2	2	2	2	1	2											
	L7	1	1	1	1		1											
	TD 18	1		1		1												
72 Sig Co.	1/4 T Trk		2		2		2											
	3/4 T Trk		1		1		1											
	1 T Tlr		1		1		1											
Det 207 Sig Dep	None																	
52 Med Bn	None																	
815 MP Co	None																	
377 FW EG Co	None																	
69 Cml Dep	None																	
21 Cml Decon Co	None																	
3467 QM Trk Co	None																	
3436 QM Trk Co	None																	
Boat Guard 3rd Plat	None																	
450 Engr Dep	None																	
69 Ord AM Co	None																	
3407 Ord Co DM	None																	
6690 Res Co	None																	
530 QM Sv Bn	None																	
52 DUKW Bn	None																	
3856 QM GS Bn	None																	
93 QM Phd Co	None																	
Air Force Detail	None																	
RAF Unit	None																	
6617 Mine Clr Co	Scarifier							1	1									
	M4 w/Dozer							1	1			1	1					
3 TAC Sq	1/4 T Trk															1		
	3/4 T Trk														1			
	2 1/2 T Trk														1			
	1 T Tlr																	
1 Naval Beach Bn	DUKW		1		1		2										1	1
	D7						1											

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ANNEX #3 (b) CONT'D
LST - LIFT

UNIT	VEHICLE	LST 203	LST 204	LST 205	LST 206	LST 207	LST 208	LST 209	LST 210	LST 211	LST 212	LST 213	LST 214	LST 215	LST 216	LST 217	LST 218	LST 219	LST 220	LST 221	LST 222
DIV HQ CO	1/4 T Trk																			2	
	3/4 T Trk																			5	
	1 1/2 T Trk																			2	
	2 1/2 T Trk																			8	
	1/4 T Tlr																			1	
	1 T Tlr																			6	
MP PLAT	1/4 T Trk																			6	
	3/4 T Trk																			1	
	1/4 T Trk																			2	
3RD RCN TRP	2 1/2 T Trk																			1	
	Car M8																			1	3
7TH INF REGT	1/4 T Trk	22	20			12															
	3/4 T Trk	4	4																		
	1½ T Trk			9																	
	2½ T Trk	3	3																		
	1/4 T Tlr	19	18			11															
	57mm AT		(9)																		
	M7	1	1																		
	M8	3	3																		
15TH INF REGT	1/4 T Trk													20	7	5				22	
	3/4 T Trk													4						8	
	1½ T Trk																			3	
	2½ T Trk													3	6	3				2	
	1/4 T Tlr													18						21	
	57mm AT																			(9)	
	M7													1						1	
	M8													3						3	
30TH INF REGT	1/4 T Trk										12	22	20								
	3/4 T Trk											4	4								
	1½ T Trk											9									
	2½ T Trk										3	3	3								
	1/4 T Tlr										11	19	18								
	57mm AT											(9)									
	M7											1	1								
	M8											3	3								

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ANNEX #3(b) CONT'D
LST - LIFT

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UNIT	VEHICLE	LST 203	LST 204	LST 205	LST 206	LST 207	LST 208	LST 209	LST 210	LST 211	LST 212	LST 213	LST 214	LST 215	LST 216	LST 217	LST 218	LST 219	LST 220	LST 221	LST 222
PROV PACK ENTY	NONE																				
3RD SIG GO	1/4 T Trk																			6	
	3/4 T Trk																			2	
	2½ T Trk																			7	
	1/4 T Tlr																			1	
	1 T Tlr																			7	
	1½ T Trk																			3	
3RD QM CO	1/4 T Trk												5			1					
	3/4 T Trk												1								
	2½ T Trk												22		4	7					
	1/4 T Tlr															1					
703RD ORD CO	1/4 T Trk							2					2		2						
	3/4 T Trk							1					1		1						
	2½ T Trk							1					1		1						
	1 T Tlr							1					1		1						
	10 T Trk												1		1						
	105mm How												1								
10TH ENGR BN	1/4 T Trk	1		1						3	1	1		1					1		
	3/4 T Trk			1						1		1		1						1	
	2½ T Trk	5		5							5	5		5					5		
	2½ T P Tlr	1		2							1	2		2					1		
	D7	1									1								1		
	1/4 T Tlr									3											
	1½ T Trk									1											
3RD MED BN	1/4 T Trk	1		1						3	1	1	1	1					1		
	3/4 T Trk	2		1						2	2	1		1					2		
	3/4 T Amb	3		3							3	3		3					3		
	2½ T Trk									7			4								
	1 T Tlr	1								3	1		2						1		

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ANNEX #3 (b) CONT'D
LST - LIFT

UNIT	VEHICLE	LST 203	LST 204	LST 205	LST 206	LST 207	LST 208	LST 209	LST 210	LST 211	LST 212	LST 213	LST 214	LST 215	LST 216	LST 217	LST 218	LST 219	LST 220	LST 221	LST 222
DIV ARTY-HQ BTRY	1/4 T Trk					3															
	3/4 T Trk					5															
	2½ T Trk					4															
	1/4 T Tlr					3															
	1 T Tlr					4															
	3/4 T Amb					1															
9TH FA BN	1/4 T Trk					5	3														
	3/4 T Trk					1	4		10			1									
	2½ T Trk					2	1		2			5									
	4 T Trk					7	8														
	1/4 T Tlr					2															
	1 T Tlr					1															
	155mm How					4	8														
	Rd					1															
10TH FA BN	1/4 T Trk			5	6(1)																
	3/4 T Trk	5		5	5																
	2½ T Trk			8	8																
	DUKW			11	11																
	1/4 T Tlr			1	1																
	1 T Tlr			2	2																
	105mm How			(6)	(6)																
	Rd			1																	
39TH FA BN	1/4 T Trk																5	6(1)			
	3/4 T Trk													5			5	5			
	2½ T Trk																8	8			
	DUKW																11	11			
	1/4 T Tlr																1	1			
	1 T Tlr																2	2			
	105mm How																(6)	(6)			
	Rd																	1			
41ST FA BN	1/4 T Tlr						6(1)	5					5								
	3/4 T Trk						5	5													
	2½ T Trk						8	8													
	DUKW						11	11													
	1/4 T Tlr						1	1													
	1 T Tlr						2	2													
	105mm How						(6)	(6)													
	Rd						1														

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ANNEX #3 (b) Cont'd LST - LIFT

UNIT	VEHICLES	LST 201	LST 202	LST 203	LST 204	LST 205	LST 206	LST 207	LST 208	LST 209	LST 210	LST 211	LST 212	LST 213	LST 214	LST 215	LST 216	LST 217	LST 218	LST 219	LST 220	LST 221	LST 222
601 TD Bn	1/4 T Trk			1	1	1	1						1	1	1	1			1		1		
	2 1/2 T Trk			1	1								1	1		1		1		1	1		
	Half Track				1	2							1					1			1		
	M10			3	3								2	3	7	5			5	3	3		
	M8			1		2								2		1		1	1				
	T2												1						1				
	1/4 T Tlr			2	2		1						2	2	1	2		1					
756 Tk Bn	1/4 T Trk																1						
	2 1/2 T Trk									2													
	1 T Trl									1													
	Half Track																2	2					
	Med Tk		1		2	3					2	2			4		3	5					4
	M7										3	3											
	T2		1														1						
441 AAA Bn	1/4 T Trk					1					1			1		1							
	3/4 T Trk						1	2															
	2 1/2 T Trk									1	1				1		1	1					
	Half Track											1		2		2					2		
	M15 AAA				4	5			8		4	4	3	2		2		8			2		
	1/4 T Tlr										1												
3rd Cml Bn	1/4 T Trk																5	7					1
	2 1/2 T Trk																1	2					2
	1/4 T Tlr																5	7					2
36th FA Bn	1/4 T Trk										1			1									
	3/4 T Trk																						
	2 1/2 T Trk			1							1												
	Tractor M																						
	155mm Gun										2												
	7 1/2 T Trk										2												
2 FA Obs Bn	None																						
5 AAA Gp	1/4 T Trk								3														
	3/4 T Trk								2														
	1/4 T Tlr								3														
534 AAA Bn	1/4 T Trk		1	1					2														
	3/4 T Trk	1													1								
	2 1/2 T Trk	2	2	2			1		3								1		3	2			
	1 T Tlr							1	1														
	10mm	2	2																				

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ANNEX #3 (b) CONT'D LST - LIFT

UNIT	VEHICLES	LST 201	LST 202	LST 203	LST 204	LST 205	LST 206	LST 207	LST 208	LST 211	LST 210	LST 209	LST 212	LST 213	LST 214	LST 215	LST 216	LST 217	LST 218	LST 219	LST 220	LST 221	LST 222
72 AAA Bn	1/4 T Trk					1	2					1	1						1	1			
	3/4 T Trk				1				4														
	2 1/2 T Trk				4	5		1										3	3	3			
	7 1/2 T Trk				4	4	4											4	4	4			
	90mm				4	4	1																
	Vann Tlr				2	1												1					
	Power Tlr					2	1												1	1			
104 BB Btry	2 1/2 T Trk								1									1					
	3/4 T WC								2														
Plat 46 CM	1/4 T Trk														1								
	2 1/2 T Trk														1								
	1 T Tlr														1								
10th F Hosp	1/4 T Trk																						
	3/4 T Trk	1																1					
	2 1/2 T Trk	2	2														2	2					
	1 T Tlr	1	1														1	1					
69 FA Bn	1/4 T Trk					1																	
	3/4 T Trk															1	1						
	2 1/2 T Trk								1							5							
	1 T Tlr																1						
	Half Track										2						2						
634 FA Bn	1/4 T Trk							2		4	1												
	3/4 T Trk				1		2		7	2													
	2 1/2 T Trk			4			1		4														
	4 T Tlr						5		6														
	155mm Hsw							4		4													
43 Ord	1/4 T C&R	2																					
	1/4 T Tr	1																					
117 Recn Sq	2 1/2 T Trk																					1	
	M8 Car																					3	
	Lt Tk																					5	
	M7 How																					2	
	M10 Tlr																					2	

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ANNEX #3 (b) (Cont'd)
LST - LIFT

UNIT	VEHICLES	LST 201	LST 202	LST 203	LST 208	LST 212	LST 216	LST 217	LST 220	LST 221	LST 222	*DUKW
	1/4 T Trk	6	6						1*			
	2 1/2 T Trk	8	8									
36 Engr Regt	1 T Tlr	6	6									
	DZ	4	6				1	1				
	1/4 T Tlr	1	1									
1 Naval Beach Bn	1/4 T Trk	2	2									
	2 1/2 T Trk	1	1									
	1/4 T Trk	2	3									
	3/4 T Trk	1	2									
72 Sig Co	2 1/2 T Trk	2	2									
	1 T Tlr	1	1									
	1/4 T Tlr	1	2									
Det 207 Sig Dep	None											
	1/4 T Trk	1	2				1	1				
	3/4 T Trk	1										
52 Med Bn	2 1/2 T Trk	4	3				1	2				
	1 T Tlr	4	2				1	2				
	3/4 T Amb	6	6				2	4				
815 MP Co	1/4 T Trk	2	2									
	2 1/2 T Trk	1	1									
377 PW EG Co	2 1/2 T Trk		1									
69 Ord AM Co	1/4 T Trk	1										
	2 1/2 T Trk	1										
530 QM Sv Bn	2 1/2 T Trk	1	1									
93 QM RHD Co	1/4 T Trk		1									
Air Force Detail	1/4 T Trk		1									
	1/4 T Tlr		1									
RAF Units	1/4 T Trk		1			1			1	1		
PWI	1/4 T Trk			1					1	1		
	1/4 T Tlr			1		1				1		
PIU	1/4 T Trk									1		
	2 1/2 T Trk									1		
CIC	1/4 T Trk									2		
	1/4 T Tlr									2		

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ANNEX #3 (b) (cont'd)
LST - LIFT

UNIT	VEHICLES	LST 201	LST 202	LST 203	LST 208	LST 212	LST 216	LST 217	LST 220	LST 221	LST 222
	1/4 T Trk									1	
3 TAC Sq	2 1/2 T Trk									1	
	1 T Tlr									1	
	1/4 T Trk									2	
163 Sig Photo	1/4 T Tlr									2	
	3/4 T Trk										4
SLAM Det	1/4 T Trk									1	
	1/4 T Tlr									1	
Battle Order	1/4 T Trk				2						
Naval Comb Int	1/4 T Trk							4			3
	1/4 T Trk										1
Public Relat	2 1/2 T Trk									2	
Civil Affairs	1/4 T Trk										1
	LUKW									1	
Sea Bees	D7									1	1

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ANNEX #3 (b) CONT'D

M/T, AK, & AP LIFT

UNIT	VEHICLES	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
DIV HQ CO	1/4 T Trk								5	5							
	1/4 T Amb	1															
	3/4 T Trk								2								
	1 1/2 T Trk							1	3								
	2 1/2 T Trk																
	1/4 T Tlr	3							2								
	1 T Tlr	2							3								
	57mm AT																
MP PLAT	1/4 T Trk											5					
	1/4 T Trk								3								
	3/4 T Trk								1								
3rd Ron Tr	Half Track									2	1						
	Car M8									1	1						
	1 T Tlr								5								
	1/4 T Trk	22	22	21													
	3/4 T Trk	1	1	2													
INF RECT 7th Inf	1 1/2 T Trk	4	5	4			9		2				2				
	2 1/2 T Trk	5	1														
	1/4 T Tlr	12	13	12						3							
	1 T Tlr	5	1	1					4								
	57mm AT						9										
	105mm How	2	2	2													
	1/4 T Trk						40	5		10	10						
	3/4 T Trk						1		3								
INF RECT 15th Inf	1 1/2 T Trk				16	6											
	2 1/2 T Trk						10										
	1/4 T Tlr						37			2							
	1 T Tlr				7		4										
	57mm AT				9												
	105mm How					6											
	1/4 T Trk				7			37	7		14						
	3/4 T Trk				4												
	1 1/2 T Trk				13			10		5	4						
INF RECT 30th Inf	2 1/2 T Trk							30	7	2							
	1/4 T Tlr						10				1						
	57mm AT				9												

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UNIT	VEHICLES	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
3d Sig Co	1/4 T Trk						2		4								
	3/4 T Trk						1				3						
	2 1/2 T Trk						5		1		2						
	1/4 T Tlr									2							
	1 T Tlr						4		6								
	1 1/2 T Trk								2		9						
3d QM Co	1/4 T Trk								2								
	3/4 T Trk								1		3						
	2 1/2 T Trk						9										
	1/4 T Tlr								2								
	1 T Tlr				1		26		4		8						
	2 1/2 T Tlr												3				
	4 T Trk					1											
709d RD Cmd Co	1/4 T Trk						13										
	3/4 T Trk	6															
	2 1/2 T Trk				6		3						1				
	1/4 T Tlr						3										
	1 T Tlr	6			12		2										
	4 T Trk					2											
	57mm AT						2										
	105mm How					2											
	1 1/2 T Trk				2												
10th Engrs	1/4 T Trk									6		1					
	3/4 T Trk								3	6							
	2 1/2 T Trk							16	2	2	2						
	4 T Trk								2		2						
	6 T Trk						1			1							
	1 T Tlr						25		1	3							
	R4 T Tlr								3								
	8 T Tlr								1	1							
	D7										1	1					
	1/4 T Tlr						3		6								
	10 T Tlr										1						
	3/4 T Amb											1					

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ANNEX #3 (b) CONT'D
M/T, AK, & AP LIFT

UNIT	VEHICLES	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
3rd Med Bn	3/4 T Trk													4			
	3/4 T Amb										15					3	
	2 1/2 T Trk				2							2					1
	1/4 T Tlr																
	1 T Tlr		3				2				2	5					1
	1 1/2 T Trk				2												
	1/4 T Trk											1					1
Div Arty-Hq Btry	2 1/2 T Trk											3					
	1/4 T Tlr											1					
	1 T Tlr											2					
9th Fa Bn	1/4 T Trk		1														
	3/4 T Trk			6						1		5					2
	2 1/2 T Trk												2				
	4 T Trk		2														
	1/4 T Tlr											8					
	1 T Tlr							9								10	
	T 19								2								
10th Fa Bn	1/4 T Trk					5											
	3/4 T Trk		9											1			
	2 1/2 T Trk				10					2							4
	1/4 T Tlr					5											
	1 T Tlr		3		3	6										10	
	T 19				2												
39th Fa Bn	1/4 T Trk									1		2					
	3/4 T Trk									5	4						
	2 1/2 T Trk												5	4	2		
	1/4 T Tlr									1	10						
	1 T Tlr									5	2					10	
	T 19						2										
41st Fa Bn	1/4 T Trk									2				3			
	3/4 T Trk									4	5						
	2 1/2 T Trk												4	7			
	1/4 T Tlr									3	5			3			
	1 T Tlr									4	5					1	7
	T 19												2				

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UNIT	VEHICLES	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
601st TD Bn	1/4 T Trk		1							10	10			15	1		
	3/4 T Trk	9															
	3/4 T Amb									1							
	1 1/2 T Trk									4				4			
	2 1/2 T Trk																8
	1 T Tlr	11								7							
	Half Track													4			5
	M 8										9		4		1		
756 Tk Bn	1/4 T Trk													10			
	3/4 T Trk											3					
	2 1/2 T Trk				5						10					5	
	1 T Tlr	10									10						
	Half Track										4						
	Lt Tk	7	5	5													
	10 T Trk								1								
441 AAA Bn	1/4 T Trk											9					
	3/4 T Trk			10													
	2 1/2 T Trk	2									5			4	2		
	1 T Tlr			40													
	Half Track										4		5				
	1/4 T Tlr											4				1	
	10 T Trk												1				
3d Cml Bn	1/4 T Trk													10		5	15
	3/4 T Trk									9							
	2 1/2 T Trk			4					2				2				
	1/4 T Tlr													10			15
	1 T Tlr			4									2				
36th FA Bn	1/4 T Trk							3	7								2
	3/4 T Trk				2			31									
	2 1/2 T Trk				3		11									5	4
	1 T Tlr							16									
	Tractor M4					1			7	5							
	155mm Gun								4	4							
	10 T Trk							1									
	1/4 T Tlr								7								

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UNIT	VEHICLES	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
5 AAA Gp	1/4 T Trk												1				
	3/4 T Trk																3
	1/4 T Tlr																2
534 AAA Bn	1/4 T Trk				8												
	3/4 T Trk									6							
	2 1/2 T Trk					16											
	1/4 T Tlr									5				6			
	1 T Tlr				4	5											
	40mm					12											
	4 T Trk					1											
72 AAA Bn	1/4 T Trk							3				1					
	3/4 T Trk	1	2						1						3		
	2 1/2 T Trk				2			2					4				2
	7 1/2 T Trk										2						
	1 T Tlr				16												
	4 T Trk												1				
	Power Tlr										2		2				
104 BB Btry	1/4 T Trk																2
	1/4 T Tlr																2
Plat 46 QM	3/4 T Trk		2														
	1 T Tlr		2														
10th F Hosp	2 1/2 T Trk													2			1
	1 T Tlr															3	
14th Ord Co	1/4 T Trk		2									3					
	3/4 T Trk			2										5			
	1 1/2 T Trk	2															
	2 1/2 T Trk		2										5		3		
	4 T Trk												1		1		
	10 T Trk			1													
	1 T Tlr	2	2						2				3		1		
	155mm How												1				

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UNIT	VEHICLE	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
69 FA Bn	1/4 T Trk												3	5			
	3/4 T Trk											4		1			
	2 1/2 T Trk						1			4							5
	1 T Tlr											4		1			
	Half Track											5					
	Med Tk									3							
	T 2									1							
	M10 Tlr											5					5
634 FA Bn	1/4 T Trk					10											
	3/4 T Trk		2			18											
	2 1/2 T Trk					10											
	4 T Trk					5											
	1/4 T Tlr					4					4	1					
	1 T Tlr				15	5											
	155mm How					4											
	Amb			1													
117 Rcn Sq	1/4 T Trk											5					
	Lt Tk								2			1					
	M3 H/T									2		4					
	1 T Tlr											5					
	M10 Tlr											1					
36 Engr Regt	1/4 T Trk	4	3	3													5
	3/4 T Trk	4	3	3								10					
	2 1/2 T Trk	11	15	14													
	10T Crane		2		2	2	2	2		1	1						
	1/4 T Tlr															6	
	D4	1	2	1									2		3		
	Shovel 1/2 CuYd	2															
	Mtrclc																
177 Sig Repair	1 T Tlr									1							
	2 1/2 T Trk	3															
1 Naval BeachBn	1/4 T Trk											2					
	2 1/2 T Trk									2							
	DUKW											1					
	97											1					
	3/4 T Trk											2					

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UNIT	VEHICLE	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
72 Sig Co	1/4 T Trk											1					
	3/4 T Trk											2					
	2 1/2 T Trk											2					
	1 T Tlr											5					
	1/4 T Tlr											3					
	1 1/2 T Trk											2					
	2 1/2 T Tlr											1					
Det 207 Sig Dep	1/4 T Trk																2
	2 1/2 T Trk												1				
52 Med Bn	1/4 T Trk		5														
	3/4 T Trk		12	4													
	2 1/2 T Trk												4				
	1 T Tlr				2			8	3				2			4	
	3/4 T Amb		6													1	
	1/4 T Tlr		1														
63 Cml Dep	1/4 T Trk																1
	2 1/2 T Trk						1										
21 Cml Decon Co	1/4 T Trk																1
	2 1/2 T Trk												1				
	1 T Tlr												1				
3485 QM Trk Co	1/4 T Trk								4								
	3/4 T Trk								1								
	2 1/2 T Trk							18	7				8	12			
3rd Plat 450 Engr Dep	2 1/2 T Trk									1							
	3/4 T Trk		1														
	1 T Tlr									1							
3407 Ord Co (DM)	1/4 T Trk												2				
	3/4 T Trk											2					
	2 1/2 T Trk											3	4		2		
	10 T Trk											1					
	1 T Tlr											1					
6690 Reg Co	1/4 T Trk														4		

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ANNEX #3 (b) CONT'D
M/T, AK, & AP LIFT

UNIT	VEHICLE	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
530 QM Sv Bn	1/4 T Trk														5		
	2 1/2 T Trk									3							
	3/4 T Trk														7		
	1/4 T Tlr														1		
	1 T Tlr														5		
52 DUKW Bn	1/4 T Trk					2							8				
	2 1/2 T Trk											3	4				
	DUKW	20	20	18	14	4	2	9	10	8	9						
	3/4 T Trk	1	3														
	1 T Tlr											3	3				
	1/4 T Tlr					2							3			2	
	4 T Trk											1					
3856 QM GS Bn	1/4 T Trk														1		
	3/4 T Trk														1		
	1 T Tlr														1		
93 QM Bkd Co	1/4 T Trk														1		
	2 1/2 T Trk						1										
Air Force Detail	1/4 T Trk																2
	1/4 T Tlr																1
R&F Unit	3 T Trk															1	
Det 6 Cml Dep	2 1/2 T Trk									1							
Det 11 Cml Maint	2 1/2 T Trk												1				
	1 T Tlr												1				
Bn 343 Engr GS Regt	1/4 T Trk																4
	3/4 T Trk										5					5	
	2 1/2 T Trk			4		4	1	3		5	2	1	4		3		1
	2 1/2 T Air Comp												1			3	
	1 T Tlr			2							5		2		1	5	
	D 7													2			1
	Tlr 16T						1										
	1 1/2 T Trk													1			
	6T Trk						1										
Det 6617 Mine Clr Co	1/4 T Trk																2
	3/4 T Trk														2		

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UNIT	VEHICLE	10	3	2	12	5	4	9	11	8	6	17	18	13	14	16	15
95 Evac Hosp	1/4 T Trk																2
	2 1/2 T Trk															1	
	1 T Tlr															1	
3432 Ord	1/4 T Trk																2
	3/4 T Trk															2	1
Hq 43 Ord Bn	3/4 T Trk														2		
143 Bomb Disp	3/4 T Trk														1		
Det 261 Ord	3/4 T Trk															2	
Det 87 Ord	3/4 T Trk														1		
Det 339 Ord Dep	3/4 T Trk																1
64 Ord AM Co	1/4 T Trk															3	
	3/4 T Trk											1					
378 Engr Bridge Co	2 1/2 T Trk											1					
	6T Brockaway			3			1										

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ANNEX 3B-1
FO #12

CRAFT LOADS ~ 3D INF DIV

		LCT							LST																	
№	ORGANIZATION	¼T Truck	¾T Truck	1½T Truck	2½T Truck	¼T Tlr	1T Tlr	M8	¼T Truck	¾T Truck	¾T Amb	1½T Truck	2½T Truck	4T Truck	10T Truck	¼T Tlr	1T Tlr	2½T Pletype Tlr	R-4, D-4	D-7	M-7	M-8 Car or How	105 How	155 How	Dukw	57 AT Gun	Half Track
1	Div HQ & HQ Co	8	3		2	1	2		2	5		2	8			4	6										
2	MP Platoon	4	2						6	1																	
3	3D Recn Troop	19				5		9	2				1								2					2	
4	3D Signal Co	20	8		2	4			6	9		3	7			1	7										
5	703 Ordnance Co								6	3			3		2	3	2					1					
6	3D QM Co								6	1			33			1											
7	10TH Engr Bn	1							9	5		1	30			3		9		3							
8	3D Medical Bn								10	11	18		11				8										
9	7TH INFANTRY REGT																										
10	HQ & HQ Co (Regt)	7				4			14	2						8											
11	Regt Med Det	1														1											
12	Cannon Co								1				1								2	6					
13	Anti-Tank Co								1			9													(9)		
14	Service Co								5	3			5														
15	Bn HQ & HQ Co	2				1			3							3											
16	Bn Medics	1							1							2											
17	Hv Wpns Co	4							4	1						4											
18	Rifle Co x3								3							3											
19	Bn Sub Total x3	21				3			33	3						36											
20	7TH Inf Regt Total	29				7			54	8		9	6			46					2	6			(9)		
21	15TH INFANTRY REGT																										
22	HQ & HQ Co (Regt)	7				4			5							3											
23	Regt Med Det	1														1											
24	Cannon Co								1	1			1			1					2	6					
25	Anti-Tank Co								1	1		9				1									(9)		
26	Service Co								5				5														
27	Bn HQ & HQ Co	2				1			3	1						1											
28	Bn Medics	1							1							1											
29	Hv Wpns Co	4							7	1						7											

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ANNEX 3B - 2
FO # 12

CRAFT LOADING - CARGO SHIPS
3º INFANTRY DIVISION

LEGEND
CARGO
SHIP TYPE
MT
AK
AP

ORGANIZATION	¼T Truck	¾T Truck	¾T Amb	1½T Truck	2½T Truck	4T Truck	6T Truck	¼T Tlr	1T Tlr	2½T Tlr	8T Tlr	20T Tlr	Half Track	R-4, D-4	T-19	57mm Gun	105mm How	M-8	D-7	¼T Amphib.
Div HQ & HQ Co	10 / 2			3 / 1				3 / 4							3				1	
MP Platoon	5																			
3º Recn Troop	3 / 1			22 / 8/2					5			3					2			
3º Signal Co	6 / 4			2 / 7				6 / 15												
703º Ord Co	13 / 5			2 / 7/1	2			3 / 17							2 / 2					
3º QM Co	2 / 4				5 / 1			2 / 39	3											
10TH Engr Bn	6 / 1	9 / 1			20 / 4	1		6 / 28		2	1		3					1		
3º Medical Bn		4 / 15	3	1	2/2				7/5											
7TH Inf Regt	43 / 4			22 / 8/2				40 / 11							9 / 6					
15TH Inf Regt	63 / 4			22 / 10				39 / 11							9 / 6					
30TH Inf Regt	63 / 4			22 / 10				39 / 11							9 / 6					
Div Arty HQ & HQ Btry	1				3			1 / 2												
9TH FA Bn	1 / 9	9 / 5			2	2		8 / 10	9					2						
10TH FA Bn	5 / 9				10 / 1			7 / 12	10					2						
39TH FA Bn	1 / 3	9			2/4/5			11 / 10	7					2						
41ST FA Bn	2 / 3	9			7/4			8 / 3	9					2						
3º DIV TOTAL	134 / 39 / 3	73 / 4 / 3	15 / 1	85 / 1	28 / 12	2	1	124 / 5 / 3	85 / 7	3	2	1	3	3	6 / 2	33	30	2	1	1

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1489

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ANNEX 3B-3
FO #12

CRAFT LOADS - ATTACHED TROOPS
3º INF DIV

ORGANIZATION	LCT: ¼T Truck	¼T Trl R	M-7	M-8	M-10	M-13, M-15 AAA	Half Track	Tank (M)	¾T Truck	Motorcycle	2½T Truck	LST: ¼T Truck	¾T Truck	2½T Truck	4T Truck	7½T Truck	¼T Truck	1T Trl R	Power Trl R M-7	Van Trl R AA	Tank Dozer	M-4 Tractor	M-7	M-8	M-10	M-13, M-15 AAA	40mm Gun AA	90mm Gun AA	155mm How	155mm Gun	Tank (L)	Tank (M)	Half Track	T-2	2½T Trk (Hosp)	T/R M-10
117 Cav Rcn Trp	20	5		8						2				1								2	4						5				2		
634 FA Bn (155 How)	4											7	13	9	11			▲									8									
36 FA Bn (155 Gun)	2											1	3	2		4					1							4							
Det 2 FA Obsn Bn	1																																		
69 Armd FA Bn	17		18				17		1			1	2	6				1													3				
HQ & HQ Btry - 5 AAA Gp												3	2				3																		
441 AAA AW Bn SP	6	6			22	2						4	3	5			1							42							7				
534 AAA AW Bn (Mbl)												9	3	18				1							20										
72 AAA Gun Bn (Mbl)												7	7	7		16			5	5						16							9		
104 Barrage Bln Btry													3	2																					
756 Tank Bn	8					5	21			4		1		2				1				6								33	4	2			
601 TD Bn				4								10		8			13					6	8	32							6	2			
3º Cml Bn (Mtz)												24		5			24																		
1 Bn 343 Engr Rgt												1																							
Det 6617 Mine Clr Co																				4															
10th Fd Hosp (-Hosp Unit)												2	2	8				4																	
HQ & HQ Det 43 Ord Bn												1	1				1																		
143 Ord Bomb Disp Sq												1	1	1																					
1 Plat 46 QM GR Co												1	1					1																	
ATTACHMENTS TOT.	58	11	18	8	4	22	24	21	1	2	4	73	41	74	11	20	42	8	5	5	4	1	14	12	32	42	20	16	8	4	5	33	20	4	9	2

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1490

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ANNEX 3B-4
FO #12

CRAFT LOADS - CARGO SHIPS
ATTACHED TROOPS-3d INF DIV

LEGEND
CARGO SHIP TYPE
AP MT AK AP

ORGANIZATIONS	¼ T Truck	¾ T Truck	¾ T Amb	1½ T Truck	2½ T Truck	4 T Truck	6 T Truck	7½ T Truck	10 T Truck	2½ Air Comp Truck	¼ T Tlr	1 T Tlr	M-10 Tlr	M-7 Power Plant Tlr	16-20 T Tlr	Half Track	M-4	T-2	D-7	Tank (L)	155 mm How	Tank (M)	40 mm AA Gun	M-8	Motorcycle	6 T Brockway
117 Cav Rcn Troop	5										5	1			4				1							
634 FA Bn	10	20	1		10	5				1	30									4						
36 FA Bn	12	33			14			1		7	16					13					8					
69 Armd FA Bn	3	4			7						4	5			5		1					3				
HQ & HQ Btry 5 AAA Gp	1																									
441 AAA AW Bn (SP)	9	10			7			1		1	40				4											
534 AAA AW Bn (Mbl)	8	6			16	1				5	9											18				
72 AAA Gun Bn (Mbl)	3	4			4	1		2			16		2													
104 Barrage Bln Btry	2									2																
756 Tank Bn	10	3			15			1			20				4				17							
601 TD Bn	21	9	1	4	4						18				4								9			
Det 6th Cml Dep Co	15			4																			4			
Det 11th Cml Maint					1							1														
3d Cml Bn (Mtz)	16	9			1						1															
1 Bn 343 Engr GS Regt	1	5		1	6	2				10	1															
Det 6617 Mine Clr Co	2	5			3	5	1		1		6	2		1			2						3			
10th Field Hosp					1						3															
95 Evac Hosp	1				1						1															
HQ & HQ Det 430 Ord Bn		1									1															
14 Ord Co (MM)	2	2		2	3	1	1		1		6	3								1						
3432 Ord M Auto Maint Co		2																								
64 Ord Am Co	3	1																								
143 Ord Bomb Disp Sq		1																								
Det 261 Ord (MM) Co		2																								
Det 87 Ord (HM Tank) Co		1																								
1 Plat 46 QM (GRS)		2									2															
378 Bridge Co					1																			4		
Attch'd Troops TOTAL	57 / 18 / 28 / 35	103 / 45 / 8	2	6 / 5	105 / 18 / 6	6 / 1 / 2	1	2	3	1	3	1	1 / 18	59 / 5 / 1	16	6	2	1	10 / 4	13	1	2	10 / 1	4 / 1	8	3	8 / 1	4 / 4	3	4

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ANNEX 3B-5
FO #12

CRAFT LOADS – BEACH GROUP
3D INF DIV

ORGANIZATION	LCT							LST												
	1/4 T Truck	3/4 T Truck	1 T Tlr	D-7	T-D 18	DUKW		1/4 T Truck	3/4 T Truck	2 1/2 T Truck	3/4 T Amb	1/4 T Tlr	1 T Tlr	D-7	DUKW					
3G Engr Regt (C)	17			6	3	11		12		16		2	12	12	1					
1st Naval Beach Bn				3		4		4		2					4					
72 Sig Co (Spec)	6	3	3					5	3	4		3	2							
52 Med Bn								5	1	10	18		9							
377 PW Esct Gd Co										1										
815 MP Co								4		2										
530 QM Bn										2										
52 QM Bn (Mbl)						(11)									(67)					
Plat 93 QM RH Co								1												
Air Force Beach Det								1				1								
RAF Brick Unit								1												
69 Ord Am Co								1		1										
BEACH GP TOTAL	23	3	3	9	3	15/(11)		34	4	38	18	6	23	12	5/(67)					

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ANNEX 3B-G
FO #12

CRAFT LOADS - CARGO SHIPS
BEACH GROUP - 3d INF DIV

LEGEND CARGO SHIP TYPE: MT / AP / AK / AP

ORGANIZATION	¼ T Truck	¾ T Truck	¾ T Amb	1½ T Truck	2½ T Truck	4 T Truck	¼ T Tlr	1 T Tlr	2½ T Tlr	8 T Tlr	R-4; D-4	Crane 10 T	Shovel ½ Cu Yd	DUKW	D-7	10 T Truck
36 Engr Regt (C)	10	10 10		40 2		6				4 3½	12	2		1	1	
1st Naval Beach Bn	2	2														
72 Sig Co (Spec)	1	2		2	2	3	5	1								
Det 207 Sig Dep Co + 177 Sig Rep Co	2			3 1												
52 Med Bn	5	16	4 6	1	4	1	13 2									
Plat 21 Cml (Smoke) Decon Co					1		1									
Det 63 Cml Dep Co					1											
3d Plat 450 Eng Dep Co		1			1		1									
530 QM Bn	5	7			1	1	5									
3485 QM Trk Co	4	1			25 8 12											
Det 6690 Reg Co	4															
52 QM Bn (Mbl)	2 8	4			1	1 2	2 3	6					1 14			
1 Sec 3880 QM Gas Sup Co	1	1					1									
Plat 93 QM RH Co	1				1											
Air Force Beach Det	1					1										
RAF Brick Unit					1											
3407 Ord MM (6 Dukw)	2	2			2 7		1								1	
Det 77th Ord Dep Co		1														
Beach Group TOTAL	11½	38	6		39	10	6	6	1	3	12	2	1	1	1	

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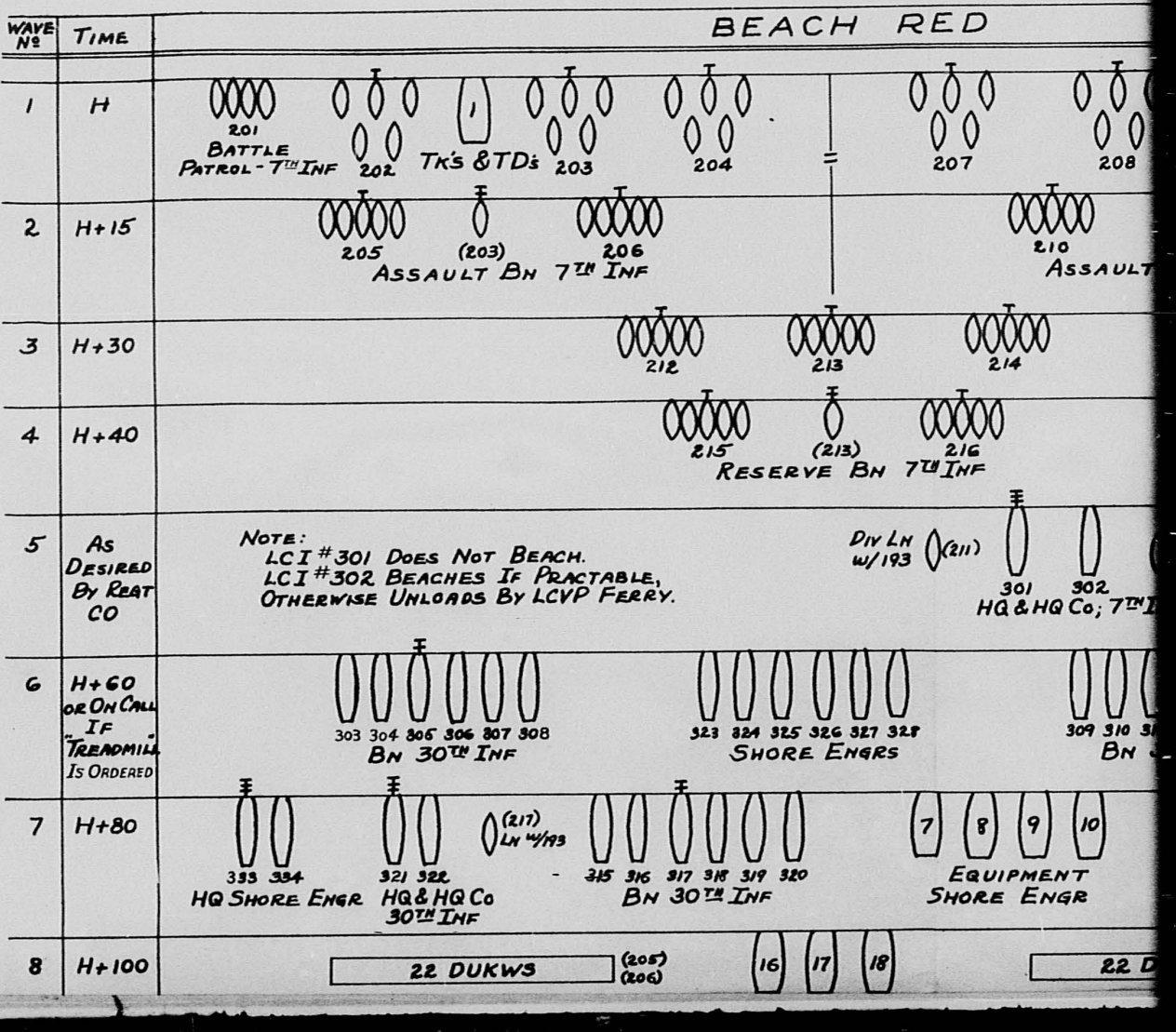
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LANDING DIAGRAM ~ 3D INF DIV (REINF)

BEACH YE

208 — Tk's & TD's — 209 — 2 — 217 BATTLE PATROL-30TH — 218 BATTLE PATROL 3D RCN TRP — 4 — Tk's & TD's

210 — (208) — 211 — ASSAULT BN 7TH INF

NOTE:
IF OBSTACLES PERMIT BEACHING ONLY THROUGH CHANNELS, LCVP WAVES MUST BE PREPARED TO TAKE UP FORMATION IN COLUMN OF COMPANIES. BOATS CARRYING BATTLE PATROLS MUST BE PREPARED TO ECHELON TO REAR IF USABLE BEACH IS FILLED TO CAPACITY.

ASSAULT BN 15TH INF (FROM CHASE)

214

(From Arun

RESERVE BN (From Thu

301 — 302 — (216) FERRY REGT CO & PARTY

Q & HQ Co; 7TH INF

DIV LN W/193 FROM THURSTON

HQ & HQ Co, 15TH In LCM's From & THURSTON

309 310 311 312 313 314

BN 30TH INF

329 330 331 33

SHORE EN

9 — 10 — 13 — 14 — 15 — 11 — 12

IPMENT E ENGR

69TH ARMD FA BN (-)

EQUIPMENT SHORE ENGR

BTR ARM

22 DUKWS (209) (210)

22 DUKWS (218) (219)

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INF DIV (REINF) TOP SECRET COPY Nº 43

BEACH YELLOW

PATROL
EN TRP

4
TK's & TD's

5
TK's & TD's

219
BATTLE
PATROL-15TH

T BEACH-
AS, LCVP
TO TAKE
OF
ING
E PRE-
AR IF
O TO

ASSAULT BN 15TH INF
(FROM CHASE)

ASSAULT BN 15TH INF
(FROM HENRICO)

(FROM ARUNDEL)

RESERVE BN 15TH INF
(FROM THURSTON)

DIV LN W/193
FROM THURSTON

HQ & HQ CO, 15TH INF
IN LCM's FROM ARUNDEL
& THURSTON

REGT CO & PARTY
LCVP FROM ARUNDEL
RENDEVOUS W/HENRICO

329 330 331 332
SHORE ENGRS

11 12
EQUIPMENT
SHORE ENGR

19
BTRY 69TH
ARMD FA

22 DUKWS (218) (219)

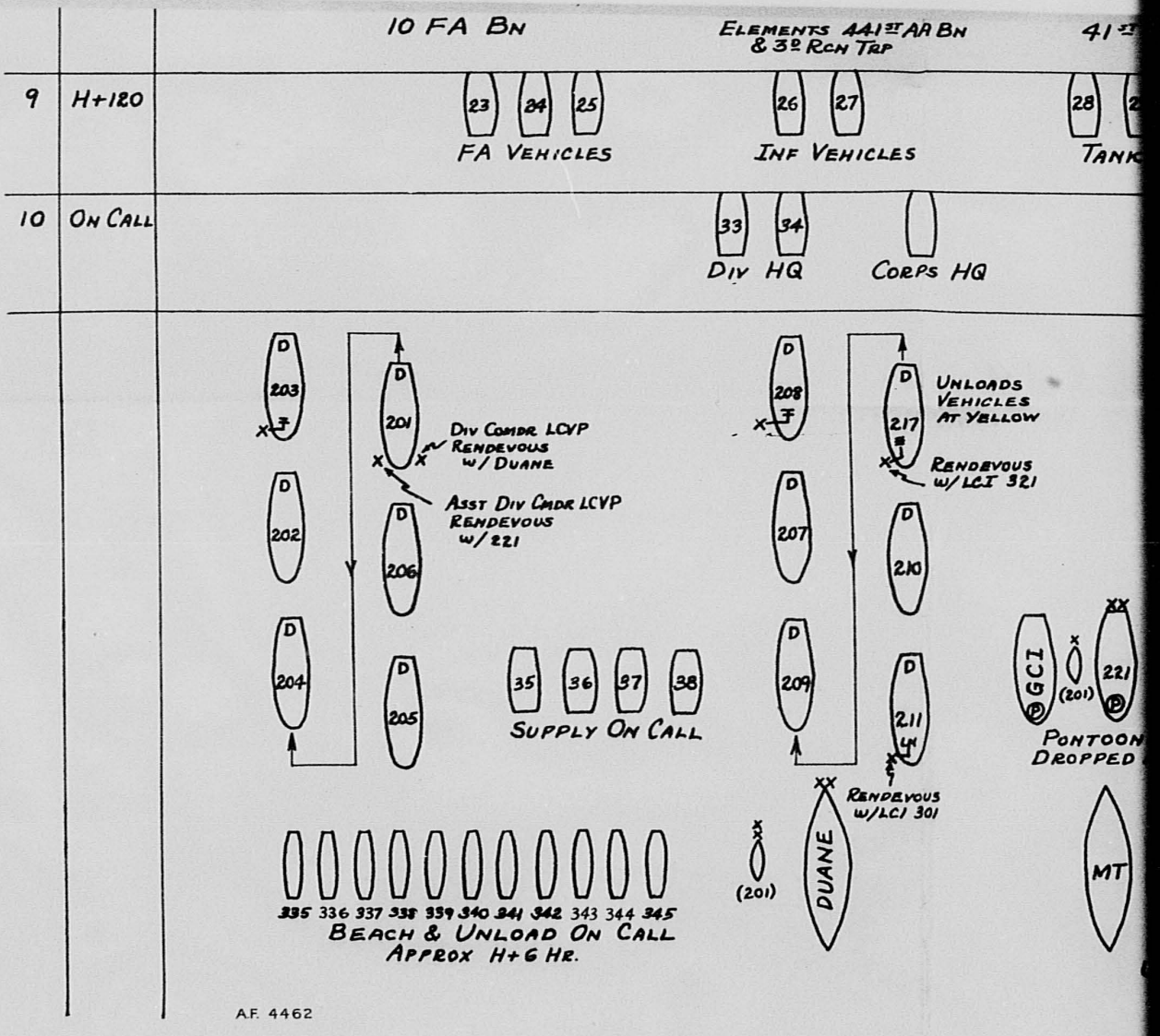
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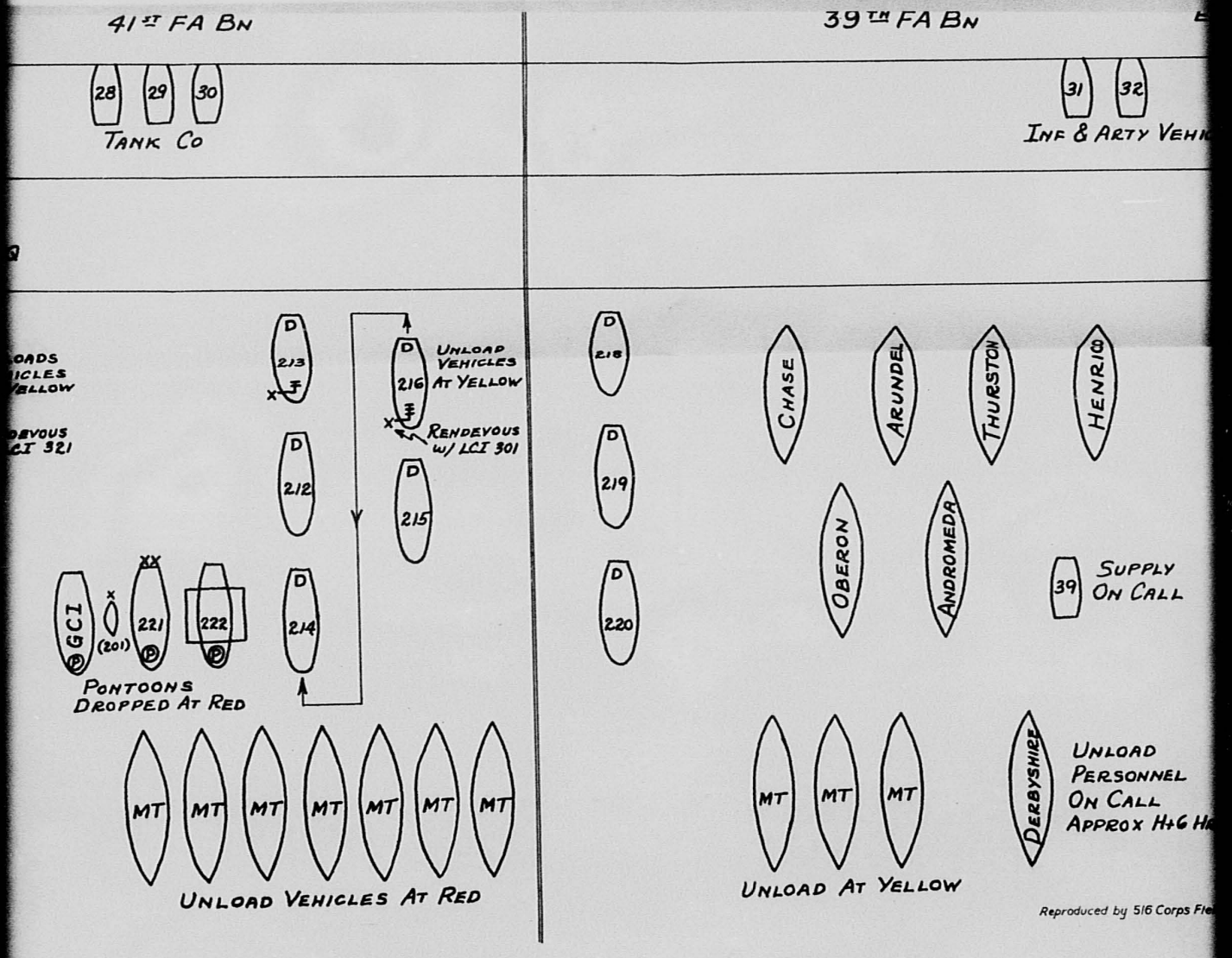
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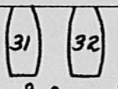
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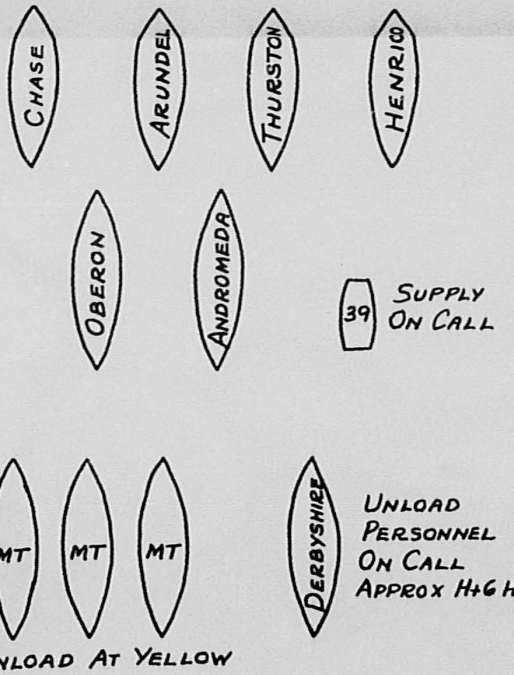
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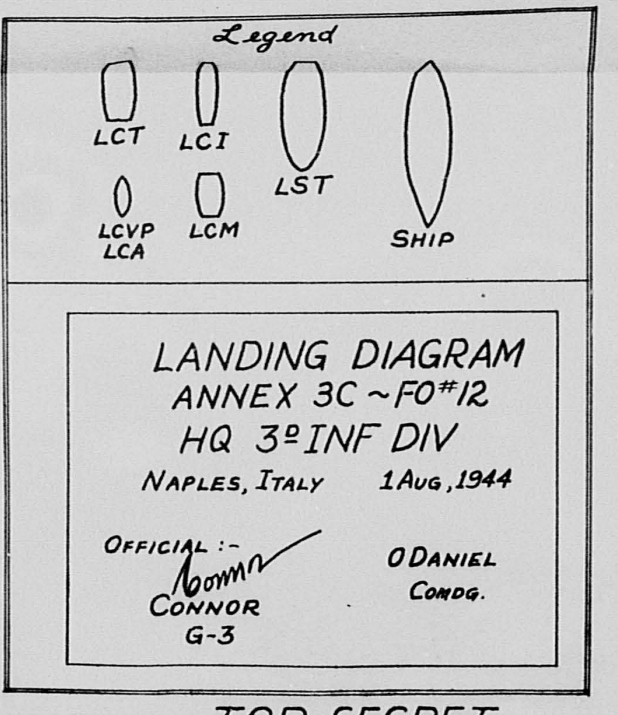
39TH FA BN

ELEMENTS 441st AA BN
& "C" TROOP 117TH RCN SQ



INF & ARTY VEHICLES





LANDING DIAGRAM
ANNEX 3C ~ FO #12
HQ 3D INF DIV

NAPLES, ITALY 1 AUG, 1944

OFFICIAL :-
CONNOR
G-3

O'DANIEL
COMDG.

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T O P S E C R E T

HQ 3D INF DIV REINF
NAPLES, ITALY
1 AUGUST 1944

C O R R E C T I O N

to APPENDIX #3 c

1. LCVP's carrying Battle Patrol 3rd Rcn Troop in WAVE #1, on Beach YELLOW come from ARUNDEL instead of LST #218, as indicated.

2. LCVP's carrying Battle Patrol 15th Inf in WAVE #1 on Beach YELLOW come from THURSTON instead of LST #219, as indicated.

O'DANIEL
COMDG

OFFICIAL:

CONNOR
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T O P S E C R E T

HQ 3D INF DIV (REINF)
NAPLES, ITALY
1 AUGUST 1944

APPENDIX d
to
ANNEX #3 (FIELD ORDER #12)

LANDING SCHEDULE

- O'DANIEL
COMDG

OFFICIAL:

CONNOR
G-3

Part I - RED Beach (15 Pages)
Part II - YELLOW Beach (11 Pages)

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
A	H Hr	7th Inf (-)	(1020)											B,C,D,E,I,K	
		2d Bn 7th Inf (-)	(510)			15			(3) (207-209)					B	
		Rifle Co (168 x 3)	504												
		Bn Med Sec	6												
		3d Bn 7th Inf (-)	(510)			15			(3) (202-204)					B	
		Rifle Co (168 x 3)	504												
		Bn Med Sec (-)	6												
			(288)						(1)						
		7th Inf Raiders	144			4			(201)					J	
		30th Inf Raiders	144			4			(1) (217)					I, K	
			(72)					(2)							
		756th Tk Bn (-)	20	See Annex				(1-2)						E, I, K	
		601st TD Bn (-)	10	#3 (b)										E, I, K	
		6617 Mine Clr Co	10												
		Det 6th Cml Co Depot	16											F, G	
		Det 63d Cml Co	16												
B	H / 15	7th Inf (-)	(697)											A,C,D,E,I,K	
		2nd Bn (-)	(338)			11			(2) (205-206)					A, I, K	
		2d Bn Hq Co	106												
		Hv Wpns Co	144												
		Bn Med Sec	26												
		Rifle Co (Overflow)	6												
		Arty Ln-10th FA	5											D,E,H,I,K	
		Arty FO Party-10 FA	3											D,E,H,I,K	
		(SFCP-Army)													
		(SFCP-Navy)	22											D, I	
		Recn Py,36th Engr Rgt	28											F, G, K	Includes 1st Naval Bch Bn Pers

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TCM	OTHER CER-TAIN ARMAMENT	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
B	H / 15	3d Bn 7th Inf (-)	(361)			11			(2)					A, I, K	
		3d Bn Hq Co (-)	127						#(210-211)						
		H.. Co	144												
		3d Bn Med Sec	26												
		Rifle Co (Overflow)	6												
		Arty Ln	5											D,E,H,I,K	
		Arty FO Party	3											D,E,H,I,K	
		(SFCP Army)													Personnel
		(SFCP Navy)	22											D, I	/
		Recn Party, 36th Engr Regt	28											F, G, K	Include 1st Naval Beach Bn/
C	H / 30	1st Bn 7th Inf (-)	(516)			15			(3)					D, I, K	
		Rifle Co (168 x 3)	510						#(212-214)						
		Bn Med Sec (-)	6												
D	H / 40	1st Bn 7th Inf (-)	(351)			11			(2)					C, I, K	
		1st Bn Hq Co	106						#(215-216)						
		Rifle Co (Overflow)	6												
		H.. Co	144												
		Arty Ln	5											B,E,H,I,K	
		Arty FO	3											B,E,H,I,K	
		(SFCP Army)	6											B, I	
		(SFCP Navy)	6											B, I	
		Recn Party 69th Armd	10											G, K	
		Recn Party 10th F.. Bn	20											B,E,H,I,K	
		Det 3d Med Bn	16											K	
		Det 441st AAA Bn	2											H, K	
		Det 534th AAA Bn	2											K	
		Det 72nd AAA Bn	3											K	
		5th AAA Group	1											K	
		1st Naval Beach Bn	21											G, K	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TQM	OTHER SERVICES APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
E	On Call	Regtl Hq 7th Inf	(51)				1						Hq Co 7th Inf (-)	I, K	Unloaded by LCVP ferry fr LST 211 & 216 (ASN)
		Regtl Staff	6				(#301)								
		Regtl Hq Co	43											I, K	
		Sv Co	2											K	
	On Call	Regtl Hq 7th Inf (-)	(128)				1						Hq Co 7th Inf (-)	I, K	Unloads by beaching if practicable otherwise by LCVP From LST 211 & 216(ASN)
		Regtl Staff	5				(#302)							I, K	
		Regtl Hq Co	46											I, K	
		Sv Co	5											K	
		Arty Ln Party	2											B,D,H,I,K	
		Det 3d Cml Bn	4											K	
		Recn Party 10th Engr Bn	3											K	
		Regtl Med Sec	30												
		IW Int Team	2											K	
		Co A 756 Tk Bn (Ln)	3											A	
		Co A 601 TD Bn (Ln)	3											A	
		Public Relations	4												
F	H + 60	Shore Engineers	(1140)				6						36th Engr Regt		
		36th Engr Regt (-)	703				#(323-328)							B, G, K	
		69th Ord Co	118											G, K	
		6690 Regulating Co	43											G	
		52nd Med Bn	94											G, K	
		815 MP Co	112											G, K	
		377th Pk Esct Cd Co	41											G, K	
		332nd Sv Gr & 111th Bch Unit	4											G, K	
		63d Cml Depot Co	13											A, G	
		3856 QM (GS)	12											G	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TCM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
F	H / 60 Or CN CALL if TREADMILL is Ordered	30th Infantry (-)					6						3d Bn 30th Inf		
		3d Bn 30th Inf	(915)				#(303-308)								
		Hq & Hq Co	127											I, K	
		Rifle Co (182 x 3)	546											K	
		Hw Co	155											I, K	
		Bn Med Sec	40											I, K	
		Ln Party 41st FA	5											I, K	Veh on LCT 27 (ASN)
		FO Party 41st FA	3												
		Det Co C 3d Med Bn	11											K	
		SFCP Army	6											I	Veh on LCT 25 (ASN)
		SFCP Navy	6											I	
		Cn Co Ln Party	3											K	
		Det 10th Engr Bn	7											K	Mine Detectors to be loaded as a grp on 1 LCI
		Ex O Party 41st FA	7												
		2d Bn 30th Infantry	(896)				6						2d Bn 30th Inf		
		Hq & Hq Co	123				#(309-314)							I, K	
		Rifle Co's 182 x 3	546											K	
		Hw Co	155											I, K	
		Bn Med Sec	28											I, K	
		Ln Party 41st FA	5											I, K	Veh on LCT 27 (ASN)
		FO Party 41st FA	3												
		Det Co C 3d Med Bn	11											K	
		Cn Co Ln Party	3											K	
		Det Co C 10th Engr	14											K	Mine Detectors to be loaded in 2 grps of 7 on LCI
		CC Party 41st FA	8												

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LANDING-SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TRCOPS	VEHICLES	CRAFT OR SHIP							CO or TOM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
G	H / 80	Shore Engineers	(188)				1						36th Engr Regt		
		36th Engr Regt	4				#(333)							B, F, K	
		1st Naval Beach Bn	1											D, K	
		72nd Sig Co	15											K	
		52nd Med Bn	3											F, K	
		815th MP Co	1											F, K	
		332nd Sv Group	1											F, K	
		6690th Regulating Co	1									a'		F	
		377 PW Esct Gd Co	1											F, K	
		530 QM Sv Bn	1											K	
		616th Clr Co	1												
		3407th Ord Co	1											k	
		69th Ord Co	13											F, K	
		36th Engr (H & SC)	48											B, F, K	
		52nd QM Bn	48												
		63d Cml Depot	5											A, F	
		93d QM Rhd	21											K	
		207th Sig Depot	10												
		450th Engr Depot	13												
		Shore Engineers	(120)				1						36th Engr Regt		
		36th Engr Regt	50				#(334)							B, F, K	
		1st Naval Beach Bn	2											D, K	
		72nd Sig Co	1											K	
		52nd Med Bn	3											F, K	
		815th MP Co	1											F, K	
		93d QM Rhd	16											K	
		3856th QM (GS)	1											F	
		450th Engr Depot	19												
		21st Cml Decon Co	1												
		63d Cml Depot	1											A, F	
		177th Sig Repair	1											K	
		207th Sig Depot	11												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP: DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
G	H / 80 (Cont'd)	77th Ord Depot	11												
		R/F Brick Unit	1											F, K	
		69th Ord Co	1												
G	H / 80 On Call	Regtl Hq 30th Inf (-)	(44)				1						Hq Co 30th Inf	I, K	Unloaded by LCVP from LST 217 (ASN)
		Hq & Hq Co (-)	38				#(321)							I, K	
		Regtl Med Sec (-)	4												Div Ln Officer
		Div Ln Officer	1												¼-T C&R SCR
		Sig Co (Opns Sgt)	1												193 loaded on LCT 27 (ASN)
	On Call	Regtl Hq 30th Inf	(174)				1						Hq Co 30th Inf		
		Hq & Hq Co (-)	130				#(322)							I, K	
		Regtl Med Sec (-)	13											I, K	
		Co C 3d Med Bn	3											F, K	
		Ln Party 41st FA Bn	5											F, I, K	
		Co C 3d Cml Bn	4											K	
		Co C 10th Engr Bn	3											F, K	
		IW Interrogators	1											K	¼-T C&R on LST 212 (ASN)
		Sv Co (Clerks)	2												
		AT Co Ln	4											F, K	
		Cn Co Ln	2												
		Public Relations	4												
		Ln 756 Tk Bn	3												
	H / 80	1st Bn 30th Inf	(902)				6						1st Bn 30th Inf		
		Hq & Hq Co	139				#(315-320)							I, K	
		Rifle Co 182 x 3	546											K	
		H. Co	155											I, K	
		Bn Med Sec	40											I, K	
		Ln Party 41st FA	5											I	Veh on LCT 27
		FO Party 41st FA	3												
		Det Co C 3d Med Bn	11											K	
		Cn Co Ln Party	3											F, K	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
G	H / 80	Shore Engineers (-)	(319)	See				4					36th Engr		
		36th Engr Regt	98	Annex				#(7-10)					Regt	B, F, K	
		1st Naval Beach Bn	5	#3 (b)										D, K	
		72nd Sig Co	92											K	
		52nd QM Co	7											F, K	
		450th Engr Depot	3												
		3634th QM Trk Co	50												
		815th MP Co	48											F, K	
		93d QM Rhd	7											K	
		332nd Sv Group	5											K	
		77th Ord Depot	4												
		Armd FA Battalion	(205)	See				3					69th Armd		
		69th Armd FA Bn (-)	195	Annex				#(13-15)					FA Bn	D, K	
		1st Naval Beach Bn	4	#3 (b)										D, K	
		3d Signal Co	6											I, K	
H	H / 100		(180)		22				2						
		10th FA Bn (-)	155						#(205-206)					B,D,E,I,K	
		52nd DUKW Bn QM	25											K	
			(176)	See				3							
		3d Recn Troop	93	Annex				#(16-18)						K	
		441st AAA Bn	83	#3 (b)										D, K	
			(180)						2						
		41st FA Bn (-)	155		22				#(209-210)					I, K	
		52nd DUKW QM Bn	25											K	
I	H / 120	Artillery Vehicles	(174)	See				3					Div Arty		
		Div Arty Hq Btry	52	Annex				#(23-25)						K	
		9th FA Bn (-)	19	#3 (b)										K	
		10th FA Bn (-)	45											B,D,E,H,K	
		41st FA Bn (-)	45											H, K, F, G	
		SFCP Army	7											B, D	
		SFCP Navy	6											B, D	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LANDING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TCM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
I	H /120 (Cont'd)	Infantry Priority Veh	(59)	See				1					7th Inf		
		7th Inf (-)	45	Annex				#(26)						A,B,C,D,E,K	See Loading List
		3d Sig Co (-)	9	#3 (b)										K	
		10th FA Bn (-)	5											B,D,E,H,K	
		Infantry Priority Veh	(44)	See				1					30th Inf		
		30th Inf (-)	30	Annex				(#27)						F,G,K	See Load. List
		3d Sig Co (-)	10	#3 (b)										K	
		41st FA Bn (-)	4											H, K	
		756th Tk Bn	(101)	See Annex #3(b)				3 #(28-30)					756th TkBn	A, E, K	
J	On Call	Priority Veh-3d Inf Div Headquarters	(103)	See Annex #3(b)				2 #(33-34)					Div Hq		
		Div Hq Co	24											K	
		3d Sig Co	47											I, K	
		MI 11at	15											K	
		3 TAC Sqd	6											K	
		10th Engr Bn	3											E, K	
		Troop C, 117th Recn	7											K	
		601st TD Bn	1											A, E, K	
K	On Call	7th Inf Raiders	(450)						1 #(201)				7th Inf	A	Land in LCVPs Assault. Re
			144												
			(306)	See											
		10th Field Hosp	25	Annex #3(b)											
		43d Ord Co (-)	6												
		36th Engr Regt (-)	21											B, F, G	
		1st Naval Beach Bn (-)	49											D, G	
		72d Sig Co (-)	7											G	
		52d Med Bn (-)	74											F, G	
		815th MI Co (-)	4											F, G	
		69th Ord AM Co (-)	3											F, G	
		530th QM Sv Bn (-)	2												
		3407th Ord Co	42												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS AVAILABLE	REMARKS
K	On Call (Cont'd)	332 SV GR	12											G	
		534th AAA Bn	41											F, G	
		177 Sig Repair	10											G	
		756th Tk Bn (-)	10											A, E, I	
			(452)	See					1						
		3d Bn 7th Inf (-)	170	Annex #3	(b)				(#202)				3d Bn 7th Inf		Land in LCVIs in Assault Wave
			(282)												
		36th FA Bn (-)	15												
		534th AAA Bn (-)	35											F, G	
		10th Field Hosp (-)	25												
		36th Engr Regt (-)	36											B, F, G	
		1st Naval Beach Bn (-)	75											D, G	
		72d Sig Co (-)	11											G	
		52nd Med Bn (-)	11											F, G	
		815th MP Co (-)	4											F, G	
		377th PW EG Co (-)	2											F, G	
		530th QM Sv Bn (-)	2											G	
		93d QM Fld Co (-)	1											G	
		332 Sv Gr	12											F, G	
		RAF Units	1											G	
		177th Sig Repair	10											G	
		3407 Ord Co	42											G	
K	On Call		(452)	See					1				3d Bn 7th Inf		
		7th Infantry (-)	(262)	Annex #3	(b)				(#203)					A,B,C,D,E,I	
		3d Bn, 7th Inf (-)	170											A, I	Assault Co
		Regt Hq Co (-)	8											E, I	
		Cn Co, 7th Inf (-)	30												
		Sv Co, 7th Inf (-)	34												
		1st Bn, 7th Inf (-)	14											D, I	
		2nd Bn, 7th Inf (-)	5											D, I	
		FWI, 7th Inf	1												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP: DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TOM	OTHER SERIALS APPLICABLE	REMARKS
K	On Call (Contd)		(190)												
		10th Engr Bn (-)	60											E, F	
		3d Med Bn (-)	30											D	
		10th FA Bn (-)	25											B,D,E,H,I	
		601st TD Bn (-)	25											A, E, I	
		756th Tk Bn (-)	10											A, E, I	
		441st AAA Bn (-)	24											D, H	
		634th FA Bn (-)	16												
			(451)	See					1						
		7th Infantry	(288)	Annex #3	(b)				(#204)				3d Bn 7th Inf	A,B,C,D,E,I	
		3d Bn 7th Inf (-)	170											A	Assault Co
		Regtl Hq Co 7th (-)	4											E, I	
		AT Co (-)	40												
		Cn Co (-)	26												
		Sv Co (-)	24												
		1st Bn 7th Inf (-)	2											C, D, I	
		2nd Bn 7th Inf (-)	7											A, B, I	
		3d Bn 7th Inf (-)	15											A, B, I	
			(163)												
		10th Engr Bn (-)	60											E, F	
		3d Med Bn (-)	30											D, F	
		601st TD Bn (-)	25											A, E	
		756th Tk Bn (-)	15											A, E, I	
		441st AAA Bn (-)	33											D, H	
			(475)	See					1						
		3d Bn 7th Inf (-)	171	Annex #3	(b)				(#205)				3d Bn 7th Inf	A, B, I	Hq Co, HW Co and Attmts
			(304)												
		10th FA Bn (-)	162											B,D,E,H,I	
		601st TD Bn (-)	22											A, E	
		441st AAA Bn (-)	6											D, H	
		72nd AAA Bn (-)	80											D	
		69th FA Bn (-)	4											D, G	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP: DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TOM	OTHER SERIALS APPLICABLE	REMARKS
K	On Call (Contd)	634th FA Bn (-)	6												
		117 Recon Squadron	24												
			(479)	See					1				3d Bn 7th Inf		Hq Co, HW Co and Attmts
		3d Bn 7th Inf (-)	171	Annex #3(b)					(#206)					A, B, I	
			(308)												
		117th Recon Sq (-)	24											B,L,E,H,I	
		10th FA Bn (-)	168											A, E	
		601st TD Bn (-)	2											D, H	
		441st AAA Bn (-)	12											D	
		534th AAA Bn (-)	18											D	
		72nd AAA Bn (-)	80												
		3d QM Co Supplies	4					4 #(35-38)					3d QM Co		
			(477)	See					1				2nd Bn 7th Inf		
		7th Inf (-)	(204)	Annex #3(b)					(#207)						
		2nd Bn 7th Inf	170												
		Regt Hq Co (-)	9												
		Sv Co (-)	20												
		2nd Bn 7th Inf (-)	5												
			(273)												
		Div Arty Hq Btry (-)	73												
		9th FA Bn (-)	117												
		634th FA Bn (-)	83												
			(477)						1						
		2nd Bn, 7th Inf (-)	170						(#208)					A, B, I	
			(307)												
		703d Ord Co (-)	10												
		9th FA Bn (-)	125											I	
		441st AAA Bn (-)	48											D, H	
		5th AAA Group (-)	33											D	
		534th AAA Bn (-)	34											D	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP LUK	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TCM	OTHER SERIALS APPLICABLE	REMARKS
K	On Call (Contd)	72nd AAA Bn (-)	35											D	
		104th BB Btry (-)	20												
		Naval Combat Intel	2												
K	On Call		(450)	See					1				2d Bn 7th		
		2nd Bn 7th Inf (-)	170	Annex #3(b)					(#209)				Inf	A, B, I	Assault Co
			(280)												
		41st FA Bn (-)	163											H, I	
		756th Tk Bn (-)	31											A, E, I	
		441st AAA Bn (-)	42											D, H	
		36th FA Bn (-)	42												
		72nd AAA Bn (-)	2											D	
			(476)	See					1				2d Bn 7th		
		2nd Bn 7th Inf (-)	171	Annex #3(b)					(#210)				Inf	A, B, I	Hq Co, HW Co and Attmts
			(305)												
		9th FA Bn (-)	52												
		41st FA Bn (-)	162											H, I	
		756th Tk Bn (-)	31											A, E, I	
		441st AAA Bn (-)	29											D, H	
		69th FA Bn (-)	16											D, G	
		634th FA Bn (-)	15												
			(457)	See					1				2nd Bn 7th		
		2nd Bn 7th Inf (-)	171	Annex #3(b)					(#211)				Inf	A, B, I	Hq Co, HW Co and Attmts
			(286)												
		30th Infantry (-)	19											A, F, I	Drivers only 30th Inf
		10th Engr Bn (-)	60											E	
		3d Med Bn (-)	30											D	
		756th Tk Bn (-)	4											A, E, I	
		36th FA Bn (-)	36												
		69th FA Bn (-)	12											D, G	
		634th FA Bn (-)	123												
		343d Engr Bn (-)	2												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP LUK	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
K	On Call (Contd)		(465)	See					1				1st Bn 7th Inf		
		1st Bn 7th Inf (-)	170	Annex #3(b)					(#212)					C, D, I	Res Bn Rifle Co
			(295)												
		30th Infantry (-)	174											A, F, I	
		10th Engr Bn (-)	40											E	
		3d Med Bn (-)	30											D	
		601st TD Bn (-)	25											A, E	
		441st AAA Bn (-)	23											D, H	
		72nd AAA Bn (-)	2											D	
		30th Inf Det I&I	1											F	
K	On Call		(495)	See					1				1st Bn 7th		
		1st Bn 7th Inf (-)	170	Annex #3(b)					(#213)				Inf	C, D, I	Res Bn, Rifle Co
			(325)												
		30th Infantry (-)	70											A, F, I	Cn Co(-) and Drivers 30th Inf
		10th Engr Bn (-)	60											E	
		3d Med Bn (-)	30											D	
		9th FA Bn (-)	73												
		41st FA Bn (-)	25											H, I	
		601st TD Bn (-)	27											A, E	
		756th Tk Bn (-)	10											A, E, I	
		441st AAA Bn (-)	25											D, H	
		534th AAA Bn (-)	5											D	
			(460)	See					1				1st Bn 7th		
		1st Bn 7th Inf (-)	170	Annex #3(b)					(#214)				Inf	C, D, I	Res Bn Rifle Co
			(290)												
		3d QM Co (-)	138												
		703d Ord Co (-)	10												
		3d Med Bn (-)	30											D	
		601st TD Bn (-)	37											A, E	
		756th Tk Bn (-)	40											A, E, I	
		441st AAA Bn (-)	15											D, H	
		Plat 46th QM (-)	20												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TAM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
K	On Call (Contd)		(366)						1 (#221)				Div Hq Co		
		Div Hq Co (-)	150												
		Div MP Plat (-)	20												
		3d Ren Troop (-)	4											H	
		3d Sig Co (-)	150											I	
		10th Engr Bn (-)	3											E	
		FWI	3												
		FIU	5												
		CIC	4												
		3 TAC Sq	5												
		163 Sig Photo	4												
		Battle Order	1												
		Civil Affairs	2												
		Sea Bees	15												
K	On Call		(487)						1 (#222)						
		3d Ren Troop (-)	40											H	
		756th Tk Bn (-)	20											A, E, I	
		3d Cml Bn (-)	133											E	
		534th AAA Bn (-)	35											E	
		117th Ren Sq	48												
		SLAM Det	16												
		Public Relations	6												
		Sea Bees	15												
		Div Hq	3												
		36th FA	171												
K	Beach & Unload on call Approx H + 6	95th Evac Hosp(Nurses)					1 (#335)								
			(176)				1								
		36th Engineers	131				(#336)								
		39th FA Bn	14												
		9th FA Bn	31												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Red

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP							CO or TCM	OTHER SERIALS APPLICABLE	REMARKS
					DUK	LCVP	LCI	LCT	LST	LSI	AK			
K	Beach & Unload on Call Approx H + 6	7th Infantry 534th AAA Bn	(180) 100 80				1 (#337)							
		10th FA Bn 634th FA Bn	(176) 115 61				1 (#338)							
		72nd AAA Bn 441st AAA Bn	(179) 169 10				1 (#339)							
		9th FA Bn 634th FA Bn	(181) 153 28				1 (#340)							
		41st FA Bn 634th FA Bn	(183) 143 40				1 (#341)							
		3d Med Bn 7th Infantry	(180) 100 80				1 (#342)							
		10th Engr Bn	(172)				1 (#343)							
		30th Inf (AT & Cn Co) 534th AAA Bn	(176) 87 89				1 (#344)							
		10th Engr Bn 10th Field Hosp 601st TD Bn	(187) 70 25 92				1 (#345)							

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TOM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
AA	H - Hr	15th Inf (Reinf) (-)	(1340)												
		1st Bn 15th Inf (-)	(510)			15						(1)	1st Bn 15th Inf	BB,GG,KK	AA CHASE-ASN C-13-X
		Rifle Co 168 x 3	504											KK	
		Bn Med Sec	6												
		3d Bn 15th Inf (-)	(510)	"		15						(1)	3d Bn	BB,GG,KK	AA HENRICO ASN C-15-X
		Rifle Co 168 x 3	504											KK	
		Bn Med Sec	6											BB,II	
		756th Tk Bn (-)	20	4 Tks - M-4				1 (#3)						KK	
		601st TD Bn (-)	10	2-M10s				1						KK	
		6617 Mine Clr Co (-)	10	1-Scarifier,M-4	w/Doz			(#4)						KK	
		Battle Patrol 3d Ron	140			4						(1)	2nd Bn 15th Inf	KK	AA ARUNDEL ASN C-16-X
		Battle Patrol 15th Inf	140			4						(1)			AA THURSTON ASN C-14-X
BB	H / 15	15th Inf (Reinf) (-)	710												AA CHASE ASN
		1st Bn 15th Inf (-)	(354)			11						(1)		AA,GG,KK	C-13-X
		1st Bn Hq & Hq Co	123											KK,II	Incl 2 aid men
		HW, Co D 1st Bn	151											KK,II	" " " "
		1st Bn Med Det	26											AA,II,KK	
		39th FA Bn Ln Party	5											HH,II,KK	
		39th FA Bn FO Party	3											HH,II,KK	
		SFCP (Army)	6											KK	
		SFCP (Naval Ln)	6											KK	Incl 1 Br Ln Off
		Det Co B 3d Med Bn	16											CC,DD,KK	
		Ren Party 36th Engrs	19											BB,KK	
		Det Cooks 1st Bn	8											AA,GG,KK	Unload by LCVP Ferry. Unload by LCVP Ferry
		Rifle Co Overflow	42											AA,BB,KK	

1517

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TOP SECRET

LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TCM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
BB	H ∕ 15	3d Bn 15th Inf (-)	(354)			11						(1)	3d Bn 15th		AP Henrico
		3d Bn Hq & Hq Co	123											AA,GG,KK	Incl 2 aidmen
		HW, Co M, 3d Bn	151											II,KK	" " "
		3d Bn Med Det	26											II,KK	
		39th FA Ln Party	5											II,KK	
		39th FA FO Party	3											KK	
		SFCP Army	6											KK	
		SFCP Navy	6											KK	1 Br Ln Off
		Det Co B 3d Med Bn	16											CC,DD,KK	
		Recn Party 36th Engr Rgt	19											KK	
		Det Cooks fr 3d Bn	8											KK	Unload by ferry LCVP. Unload by Ferry LCVP
		Rifle Co (Overflow)	42											AA,BB,KK	
CC	H ∕ 30	15th Inf (Reinf) (-)	(495)									(1)			AP ARUNDEL
		2d Bn 15th Inf (-)	(340)											DD,II,KK	C-16-x
		Rifle Co (168x2)	336			10								DD,II,KK	
		Bn Med Det	4											DD,KK	
			(155)			5								DD,II,KK	Hq Co (-)Co H (-)Co B (-) 3d Med in remaining 5 LCVP's
		Hq & Hq Co (-) 2nd Bn	60												
		Co H (-) 2d Bn	76											DD,II,KK	1 MG Plat
		Det Co B 3d Med Bn	8											BB,DD,KK	Sec Mortars
		Det Co B 10th Engr Bn	7											DD,KK	
		Det Cooks fr 2nd Bn	4											KK	Unload by LCVP Ferry
DD	H ∕ 40	15th Inf (Reinf) (-)	(427)									(1)	2d Bn 15th		AP THURSTON
		2nd Bn 15th Inf (-)												CC,II,KK	C-14-x
		Rifle Co (170)	170			5								CC,KK	Incl 2 aidmen

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TCM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LCM	LSI	AK	AP			
[illegible]	H / 40 (Contd)		211			6								CC,II,KK	Hq Co (-)Co H (-)Co B(-)3d Med & attmts in remaining 6 LCVPs
		Hq & Hq Co (-) 2nd Bn	63												
		Hq Co H (-)	75											CC,II,KK	Incl 2 Aidmen
		39th FA Ln Party	5											II,KK	
		39th FA FO Party	3											KK	
		SFOP Army	6											BB,KK	
		SFOP Navy	6											BB,KK	1 Br Ln Off
		Det Co B 3d Med Bn	8											BB,CC,KK	
		2nd Bn Med Sec	26											CC,II,KK	
		Rcn Party 69th FA Bn	5											GG,KK	
		Det [illegible] Bn	1											HH,KK	
		[illegible] Group	1											KK	
		Det [illegible] Bn	2											KK	
		Det [illegible] Bn	3											KK	
		[illegible] 10th Engr Bn	7											CC,KK	
		Rifle Co Overflow	42											KK	Unload by LCVP Ferry. Unload by LCVP Ferry.
		Det Cooks fr 2nd Bn	4											KK	
[illegible]EE	As Desired by Regt CO (Gp #1)	Regt Hq & Hq Co (-)15th	(136)			1			1			(1)	Hq Co 15th		Group #1 At THURSTON
		Regt CO & Party	12											KK	Party of 11
		Regt Hq Co	83											II, KK	Load on HENRICO
		39th FA Ln Party	3											II,KK	
		Cn Co 15th Inf Ln Party	4											KK	Go ashore on CO LCVP
		3d Div Ln SCR 193	3												
		10th Engr Ln Party	3											CC,DL,KK	
		3d Cml Bn Ln Party	4											KK	
		756th Tk Bn Ln Party	3											AA,KK	Go ashore on CO LCVP. Unload by LCVP Ferry
		Det 11th Ord Co	17												
		Public Relations Gp	4												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TOM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LCM	LSI	AK	AP			
DD	H + 40 (Contd)		211			6								CC,II,KK	Hq Co (-)Co H (-)Co B(-)3d Med & attmts in remaining 6 LCVPs
		Hq & Hq Co (-) 2nd Bn	63												
		HW Co H (-)	75											CC,II,KK	Incl 2 Aidmen
		39th FA Ln Party	5											II,KK	
		39th FA FO Party	3											KK	
		SFCP Army	6											BB,KK	
		SFCP Navy	6											BB,KK	1 Br Ln Off
		Det Co B 3d Med Bn	8											BB,CC,KK	
		2nd Bn Med Sec	26											CC,II,KK	
		Recn Party 69th FA Bn	5											GG,KK	
		Det 441st AAA Bn	1											HH,KK	
		Det 5th AAA Group	1											KK	
		Det 736th AAA Bn	2											KK	
		Det 7th AAA Bn	3											KK	
		Det Co B 10th Engr Bn	7											CC,KK	
		Rifle Co Overflow	42											KK	Unload by LCVP
		Det Cooks fr 2nd Bn	4											KK	Ferry.Unload by LCVP Ferry.
EE	As Desired by Regt CO	Regt Hq & Hq Co (-)15th	(136)			1			1			(1)	Hq Co 15th		Group #1 AP THURSTON
		Regt CO & Party	12											KK	Party of 11
		Regt Hq Co	83											II, KK	Load on HENRICO
	(Gp #1)	39th FA Ln Party	3											II,KK	
		Cn Co 15th Inf Ln Party	4											KK	Go ashore on CO LCVP
		3d Div Ln SCR 193	3												
		10th Engr Ln Party	3											CC,LL,KK	
		3d Cml Bn Ln Party	4											KK	
		756th Tk Bn Ln Party	3											AA,KK	Go ashore on CO LCVP.Unload by LCVP Ferry
		Det 11th Ord Co	17												
		Public Relations Gp	4												

- 1520 -

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LANDING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LCM	LSI	AK	AP			
EE	As desired by Regtl CO (Gp #2)	Regt Hq & Hq Co 15th Inf	(124)			1			1			(1)	Hq Co 15th		Gp #2 ARUNDEL
		Regtl Staff	4											II,KK	
		Regtl Hq Co	97											II,KK	
		FW Interrogators	2											KK	
		601st TD Bn In Party	3											AA,KK	
		39th FA Bn CO & Recn Pty	15											BB,DD,KK	
		Div In Party SCR 193	3												
		Cn Co (-) 15th Inf	116									(1)	1st Bn 15th	KK	AP CHASE Unload by LCVP Ferry. Unload by LCVP Ferry.
		Sv Co (-) 15th Inf	96											KK	
FF	H + 60	Shore Engineers	(731)				(4) #(329-332)						36th Engrs		
		377 FW Esct Gd Co	7				#(329)							KK	
		52nd Med Bn	33				"							KK	
		815th MF Co	30				"							KK	
		36th Engr Regt	110				"							BB,GG,JJ,KK	
		63d Cml Depot	6				#(330)								
		36th Engr Regt	99				"							BB,GG,JJ,KK	
		63d Cml Depot	5				"								
		530th QM Bn	61				"								
		1st Naval Beach Bn	22				#(331)							G	
		36th Engr Regt	99				"							BB,GG,JJ,KK	
		3856th QM (GS)	5				"								
		207 Sig Depot	10				"								
		530th QM Bn	54				"								
		1st Naval Beach Bn	16				#(332)							GG	
		815th MF Co	31				"								
		377th FW Esct Gd Co	6				"								
		36th Engr Regt	99				"							BB,GG,JJ,KK	
		6690th Regulating Co(Traffic)	24				"								
		530 QM Bn	14				"								

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

BAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS AFFLICABLE	REMARKS
GG	H / 80	Shore Engineers	(175)	See Annex #3 (b)				2 #(11-12)					36th Engrs		
		36th Engrs	17					#11						BB,FF,JJ,KK GG	
		1st Naval Beach Bn	3					"							
		450 Engr Depot	3					"							
		352 Sv Group	5					"							
		72 Sig Co	25					"							
		36th Engrs	16					#12						BB,FF,JJ,KK HH	
		52 QM Bn	6					"							
		93d QM Rhd	7					"							
		77th Ord Depot	4					"							
		72d Sig Co	24					"							
		Btry 69th Armd FA Bn	65	See Annex #3 (b)				#19					69th FA Bn	DD,KK	
HH	H / 100		(353)	See Annex #3 (b)	22			2 #(218-219)					39th FA Bn	II,JJ,KK	11 Dukws on 218 11 on 219
		39th FA Bn	155											GG	
		52 QM Bn	25											KK	27-28&28 prsnl on 20,21,22 respectively
		441st AAA Bn	83					#20-21-22							
		117th Recn Sqd	90					#20-21-22						KK	30 personnel on 20,21,22 resp
II	H / 120	Inf Mty Vehicles	(109)	See Annex #3 (b)				#31&32							
		15th Inf	34					#31					15th Inf	AA,BB,CC,DD,EE,KK	
		Air & Comi Sqd	3												
		3d Sig Co	7												
		39th FA Bn	59	See Annex #3 (b)				#32					39th FA Bn	JJ,KK	
		ASFC Party	3											KK	
		Naval SFC Party	3											KK	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH; Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
II	H / 120 On Call		(450)	See Annex #3(b)					#215				1st Bn 7th Inf		
		15th Inf Regt	83											AA,BB,CC,DD,EE,II,KK	
		10th Engr Bn	50											CC,DD,KK	
		3d Med Bn	30											BB,CC,DD	
		39th FA Bn	25											HH,II,KK	
		601st TD Bn	42											AA,KK	
		44lst AAA Bn	25											HH,KK	
		69th FA Bn (Armd)	25											DD,GG,KK	
		1st Bn 7th Inf	170											C, D, K	Personnel of Assult Co Unload on LCVP's
			(450)	See Annex #3(b)					#216						
		36th Engrs	3											BB,FF,GG,KK	
		52nd Med Bn	20											FF,KK	
		332 Sv Group	6											KK	
		15th Inf	20										1st Bn 7th Inf	C, DD, K	
		703d Ord	10												
		756th Tk Bn	79											AA	
		44lst AAA Bn	15											HH	
		3d Cml Bn	32												
		534th AAA Bn	56												
		10th Field Hosp	25												
		69th Armd FA Bn	14												
		1st Bn 7th Inf	170											C, D, K	Personnel unload on LCVP's
	On Call		(447)	See Annex #3(b)					#217				3d QM Co		
		15th Infantry	5												
		3d QM Co	65												
		601st TD Bn	13											AA	
		756th Tk Bn	5											AA	
		44lst AAA Bn	63											HH	

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP: DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
II	H / 120														
	On Call	3d Cml Bn	52												
		104th BB Btry	20												
		10th Field Hosp	25												V
		36th Engrs	2											FF	
		52nd Med Bn	47												
		30th Infantry	144												Land in assault (4 LCVI's)
		332 Sv Group	6												
	On Call		(476)	See					#218				39th FA Bn		
		39th FA Bn	165	Annex #3(b)										HH	
		601st TD Bn	26											AA	
		534th AAA Bn	25												
		72 AAA Bn	90												
		703d Ord Co	100												
		14 Ord	70												
	On Call		(453)	See					#219				39th FA Bn		
		39th FA Bn	200	Annex #3(b)										HH	
		601st TD Bn	17											AA	
		534th AAA Bn	33												
		72nd AAA Bn	51												
		36th Engr Bn	2						V					BB,FF,GG	1 DUKW V
		52nd Med Bn	24												
		69th Armd FA Bn	126												
	On Call		(451)	See					#220				15th Inf		
		15th Infantry	195	Annex #3(b)											
		10th Engr Bn	40											CC,DD	
		3d Med Bn	30											BB,CC,DD	
		601st TD Bn	19											AA	
		441st AAA Bn	22											HH	
		CIC	1												
		39th FA Bn	37											HH	
		72nd AAA Bn	107												

1524

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP: DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
KK	On Call		(1387)	See								1	15th Inf		CHASE (ASN 13)
		10th Engr Bn (-)	90	Annex #3(b)											Total includes
		39th FA Bn (-)	82												Assault Troops
		3432 Crd Co	50												landed previou
		3d Med Bn	4												
		10th FA Bn	1												
		41st FA Bn	10												
		601st TD Bn	23												
		756th Tk Bn	10												
		441st AAA Bn	4												
		3d Cml Bn	10												
		534th AAA Bn	6												
		10th Field Hosp	2												
		14th Ord Co	5												
		69th FA Bn	6												
		3485th QM Trk Co	12												
		Bn 343 Engr GS Regt	3												
			(1620)	See								1	15th Inf		ARUNDEL(ASN 16)
		530th QM Bn	815	Annex #3(b)											Total includes
		261st Ord Co	18												Assault Troops
		3d Med Bn	3												landed previou
		756th Tk Bn	5												and 3d Rcn Bat
		3d Cml Bn	5												Patrol
		36th FA Bn	5												
		RAF Unit	1												
		Bn 343 Engr GS Regt	8												
		95th Evac Hosp	1												
		3432 Ord Co	2												
		64th Ord Ammo Co	3												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLE	CRAFT OR SHIP								CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
KK	On Call		(1530)	See								1	15th Inf		THURSTON (ASN 14)
		343d Engr	600	Annex #3(b)											Total includes
		95th Evac Hosp	200												Assault Troops
		87th Ord Co	25												landed previously
		43d Ord Bn Hq	25												and 15th Inf
		143d Bomb Disp Gp	5												Battle Patrol
		39th FA Bn	2												
		601st TD Bn	2												
		441st AAA Bn	2												
		72nd AAA Bn	3												
		36th Engr Regt	3												
		3407th Ord Co	2												
		6690th Regulating Co	4												
		530th QM Sv Bn	12												
		3856th QM (GS) Bn	2												
		93d QM Rhd Co	1												
		6617th Mine Clr Co	2												
			(80)	See							1				CBERON (ASN 18)
KK	On Call	703d Ord Co	1	Annex #3(b)											
		9th FA Bn	2												
		39th FA Bn	5												
		41st FA Bn	6												
		601st TD Bn	4												
		441st AAA Bn	6												
		3d Cml Bn	2												
		5th AAA Group	1												
		72nd AAA Bn	5												
		14th Ord Co	6												
		69th Armd FA Bn	3												
		36th Engr Regt	2												
		Det 207th Sig Depot	1												
		52nd Med Bn	4												

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LANDING SCHEDULE
THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP	CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
KK	On Call (Contd)	21st Cml Decon Co	1												
		3485th QM Trk Co	8												
		3407th Ord Co (DM)	6												
		52nd DUKW QM Co	12												
		Det 11th Cml Maint	1												
		Bn 343d Engr GS Regt	4												
	On Call		(101)	See Annex #3(b)							1				ANDROMIDA (ASN 17)
		3d Div MP Plat	5												
		10th Engr Bn	3												
		3d Med Bn	2												
		3d Div Arty Hq Btry	4												
		9th FA Bn	14												
		39th FA Bn	3												
		756th Tk Bn	3												
		441st AAA Bn	9												
		72nd AAA Bn	1												
		14th Ord Co	3												
		69th Armd FA Bn	9												
		117th Recn Sqd	10												
		36th Engr Regt	10												
		1st Naval Beach Bn	6												
		72nd Sig Co	7												
		3407th Ord Co	7												
		52nd DUKW QM Bn	4												
		Bn 343d Eng GS Regt	1												
		64th Ord Ammo Co	1												
		378th Engr Bridge Co	1												

1527

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THIRD INFANTRY DIVISION (REINF)
1 August 1944

BEACH: Yellow

SERIAL	TIME OF LAND-ING	UNIT	TROOPS	VEHICLES	CRAFT OR SHIP								CO or TQM	OTHER SERIALS APPLICABLE	REMARKS
					DUKW	LCVP	LCI	LCT	LST	LSI	AK	AP			
KK	On Call (Approx H + 6 Hrs)		(2262)									1	7th Army		DERBYSHIRE (No ASN)
		7th Army	900												
		7th Inf	100												
		30th Inf (-) (Sv Co)	75												
		3d QM Co	160												
		64th Ord Ammo Co	100												
		756th Tk Bn	110												
		3d Cml Bn	200												
		441st AAA Bn	100												
		36th FA Bn	250												
		634th FA Bn	150												
		10th Field Hosp	25												

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APPENDIX e.
To
ANNEX 3
FIELD ORDER No. 12

LOADING DIAGRAMS

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COMDG

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oINIT: JG
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Hq 3d Inf Div
Naples, Italy
1 August 1944

Addenda No. 1
Annex #3e
To Field Order #12

Personnel Recapitulations are changed as follows:

Page	LST	Changes
82	205	Add 24 Ind, 117 Recon Sqd
84	206	Add 24 Ind, 117 Recon Sqd
86	207	Add 25 Ind, 9th FA Bn
89	208	Add 25 Ind, 9th FA Bn
		Add 4 Ind, 703d Ord Co
93	210	Add 25 Ind, 9th FA Bn
95	211	Add 3 Ind, 30th Inf
98	212	Add 14 Ind, 30th Inf
101	213	Add 14 Ind, 30th Inf
		Add 25 Ind, 9th FA Bn
103	214	Add 4 Ind, 703d Ord Co
109	216	Add 4 Ind, 703d Ord Co
124	222	Add 171 Ind, 36th FA Bn
		57 Ind, 3d Cml Bn

O'DANIEL

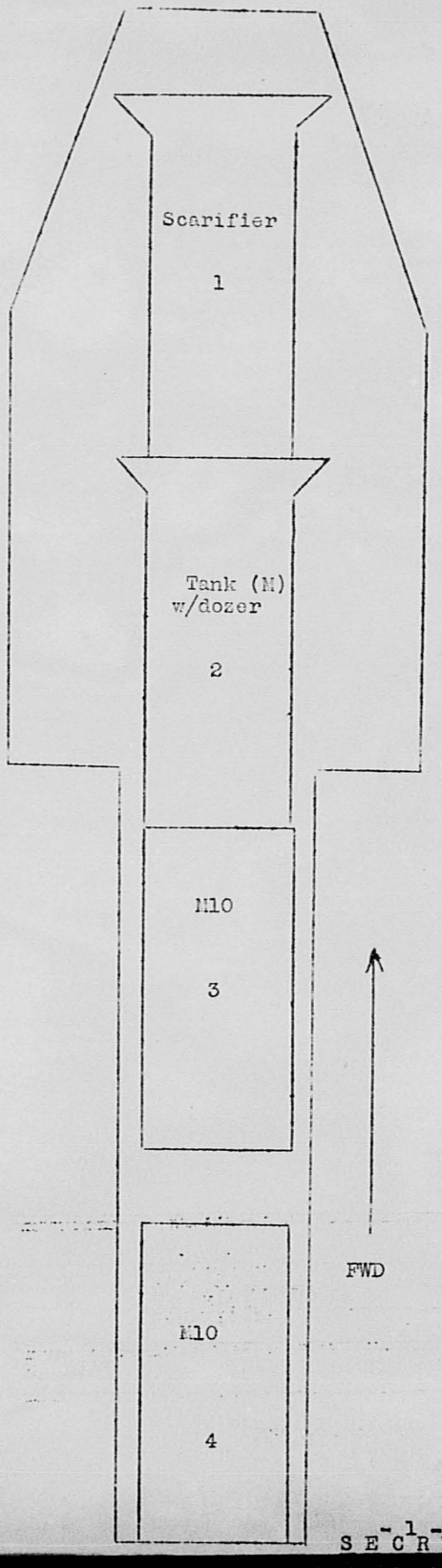
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S E C R E T

LOADING LIST -- LCT 1

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Scarifier	6617 Mine Clr Co	
2	Tank (M) w/dozer	" " " "	
3	M10 TD	601st TD Bn.	
4	M10 TD	601st TD Bn	

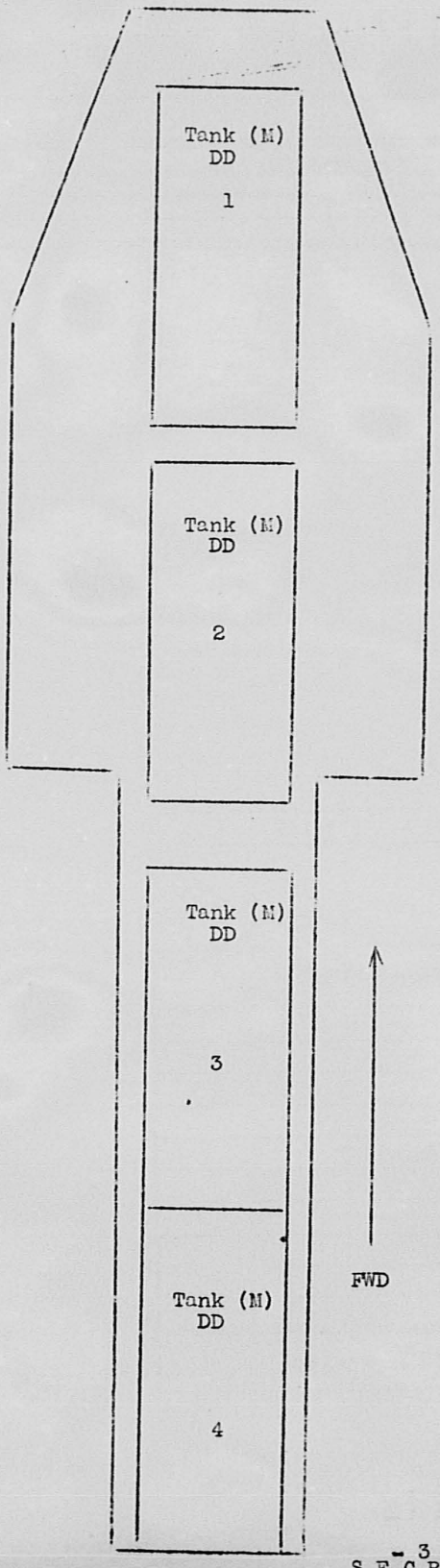
RECAPITULATION

UNIT	IND.	VEH
6617 Mine Clr Co	10	2
601st T.D. Bn	10	2
Chem. Smoke Personnel	15	
TOTAL	35	4

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S E C R E T

LOADING LIST - LCT 2

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Tank (M) DD	756th Tank Bn	
2	Tank (M) DD	" "	
3	Tank (M) DD	" "	
4	Tank (M) DD	" "	

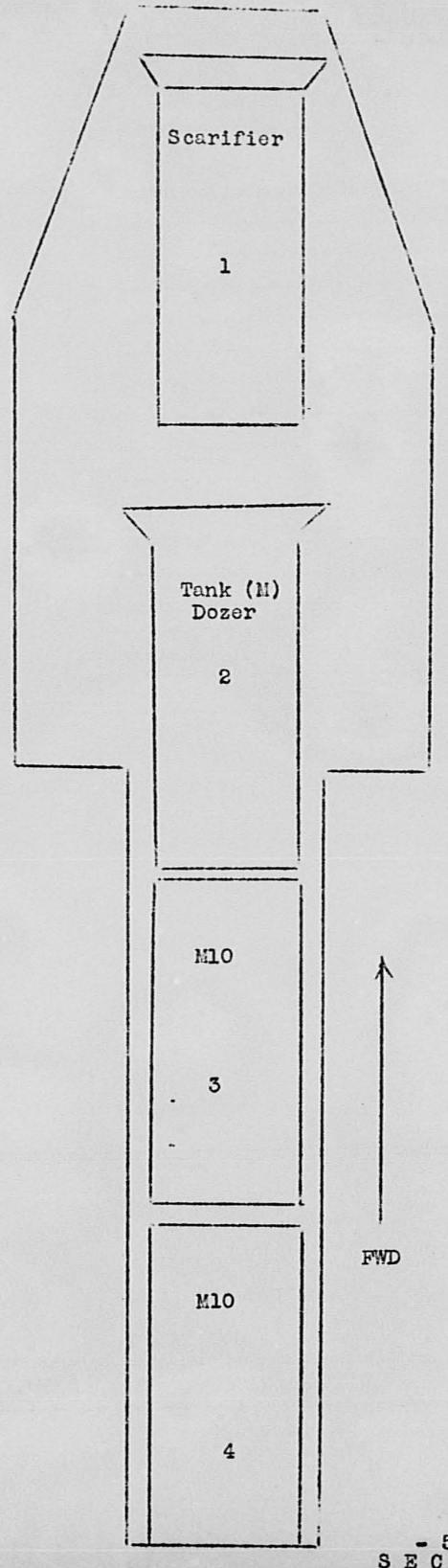
RECAPITULATION

UNIT	IND	VEH
756th Tank Bn	20	4
Chem. Smoke Pers	15	
TOTAL	35	4

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LOADING LIST - ANNEX 4

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Scarifier	6617 Mine Clearing Co	
2	Tank (M) w/dozer	" " "	
3	M-10	601st T.D. Bn.	
4	M-10	" " "	

RECAPITULATION

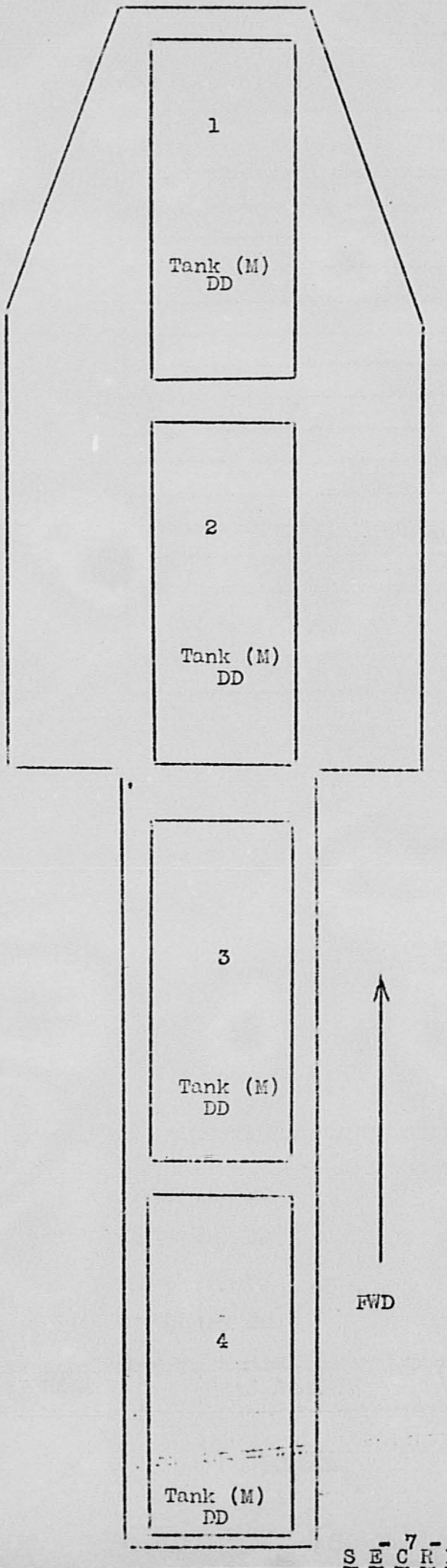
UNIT	IND	VEH
6617 Mine Clr Co	10	2
601st TD Bn	10	2
Chem Smoke Pers.	15	
TOTAL	35	4

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LOADING LIST - LOT 5
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Tank (M) DD	756th Tank Bn	
2	Tank (M) DD	" "	
3	Tank (M) DD	" "	
4	Tank (M) DD	" "	

RECAPITULATION

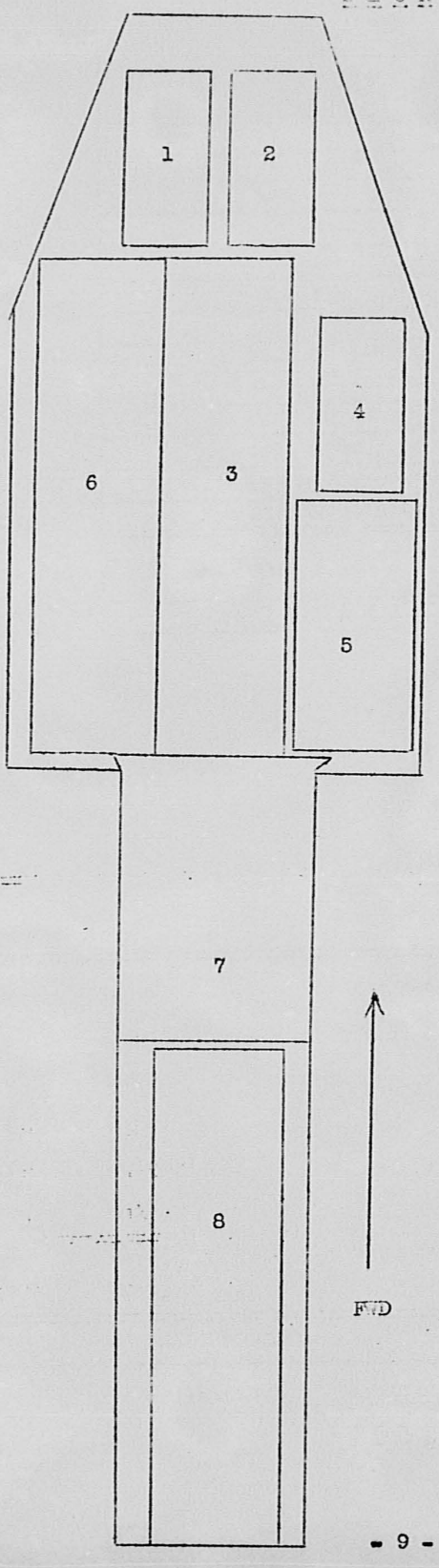
UNIT	IND	VEH
756th Tank Bn	20	4
Chem Smoke Pers	15	
TOTAL	35	4

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S E C R E T

LOADING LIST - LCT 7

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	36th Engr Regt	
2	1/4-ton C&R	" "	
3	DUKW	" "	
4	1/4-ton C&R	" "	
5	TD-18	" "	
6	DUKW	" "	
7	D-7 Angledozer	" "	
8	DUKW	1st Naval Beach Bn	

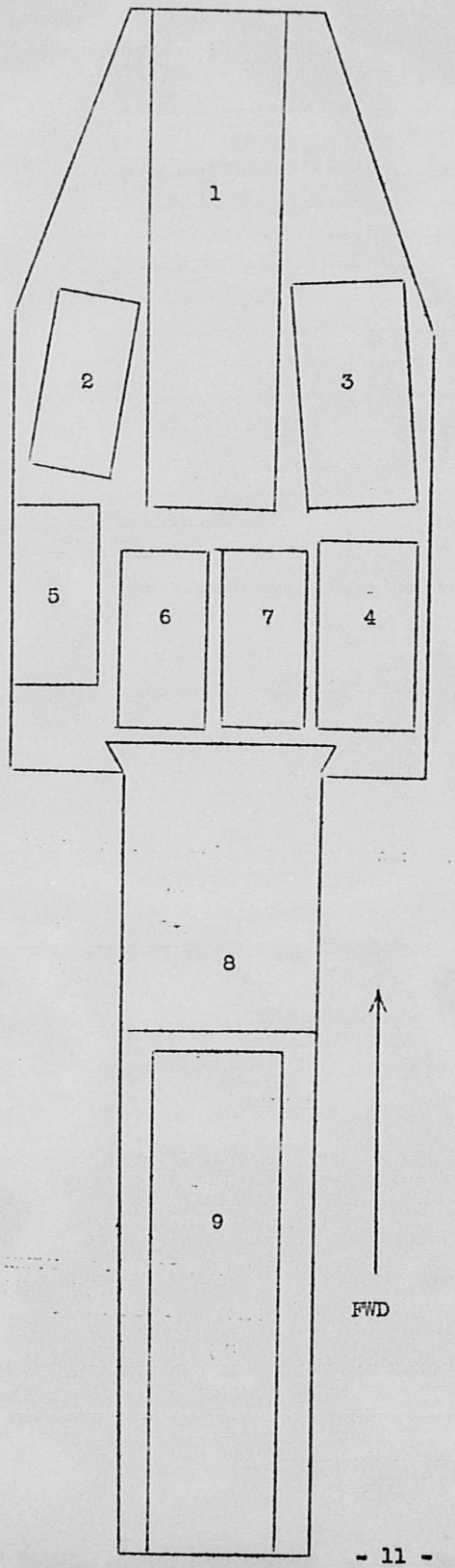
RECAPITULATION

UNIT	IND	VEH
36th Engr Regt	23	7
1st Naval Beach Bn	2	1
72nd Signal Co	24	
52nd QM Bn	7	
450 Engr Depot	3	
3634 QM Trk Co	25	
TOTAL	84	8

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S E C R E T

LOADING LIST - LCT 8

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW	36th Engr Regt	
2	1/4-ton C&R	" "	
3	3/4-ton	72nd Sig Co	
4	1-ton Trailer	" "	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	1/4-ton C&R	36th Engr Regt	
8	D-7 Angledozer	" "	
9	DUKW	" "	

RECAPITULATION

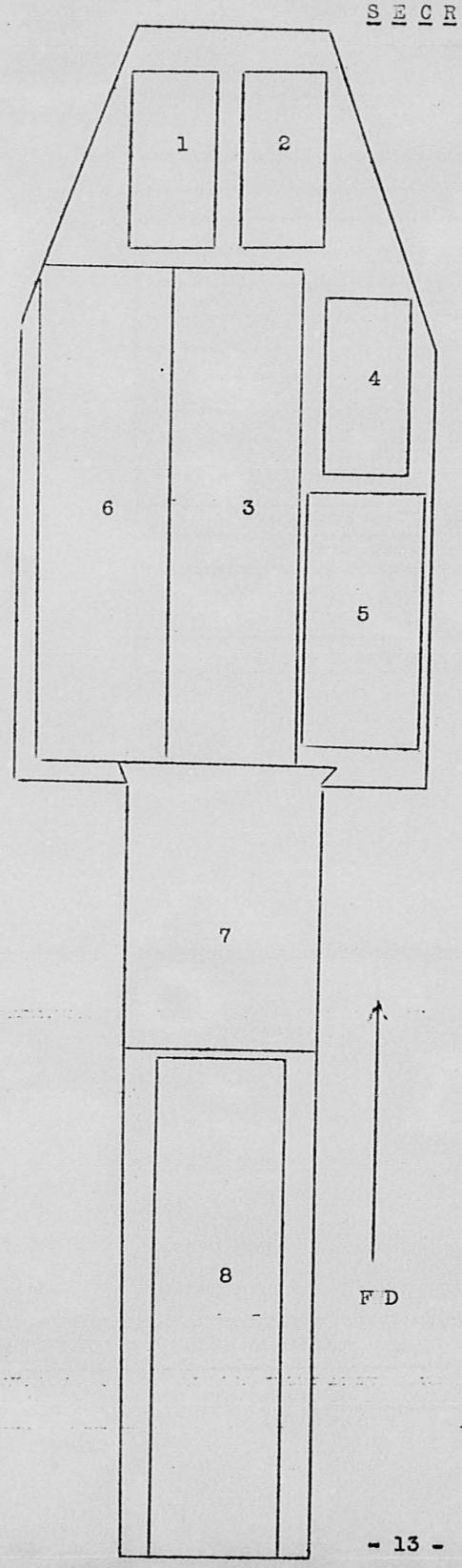
UNIT	IND	VEH
36th Engr Regt	23	5
72nd Signal Co	24	4
815th MP Co	24	
93 QM Rhd	7	
332 Sv Grp (Air Force)	5	
TOTAL	83	9

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S E C R E T

LOADING LIST - LCT 9

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	36th Engr Regt	
2	1/4-ton C&R	" "	
3	DUKW	" "	
4	1/4-ton C&R	" "	
5	TD-18	" "	
6	DUKW	" "	
7	D-7 Angledozer	" "	
8	DUKW	1st Naval Beach Bn	

RECAPITULATION

UNIT	IND	VEH
36th Engr Regt	26	7
1st Naval Beach Bn	2	1
72nd Signal Co	24	
77th Ordnance	4	
3634 QM Trk Co	26	
TOTAL	82	8

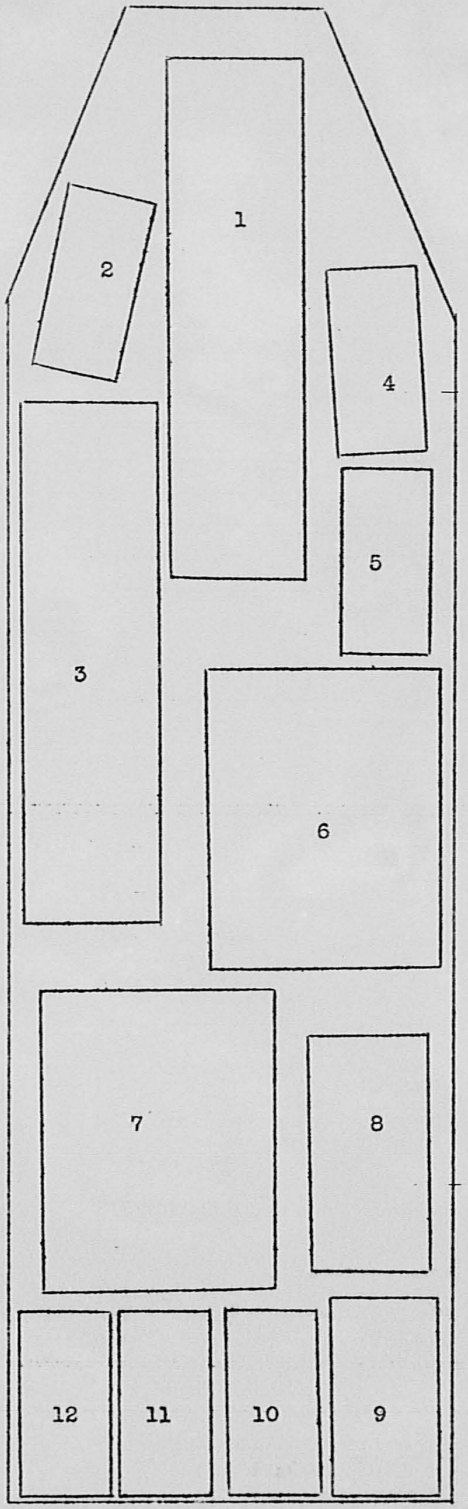
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LOADING LIST - LCT 10
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW	36th Engr Regt	
2	1/4-ton C&R	" "	
3	DUKW	" "	
4	1/4-ton C&R	" "	
5	1/4-ton C&R	" "	
6	D-7 Angledozer	" "	
7	D-7 Angledozer	" "	
8	3/4-ton	72nd Signal Co	
9	1-ton Trailer	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	36th Engr Regt	

RECAPITULATION

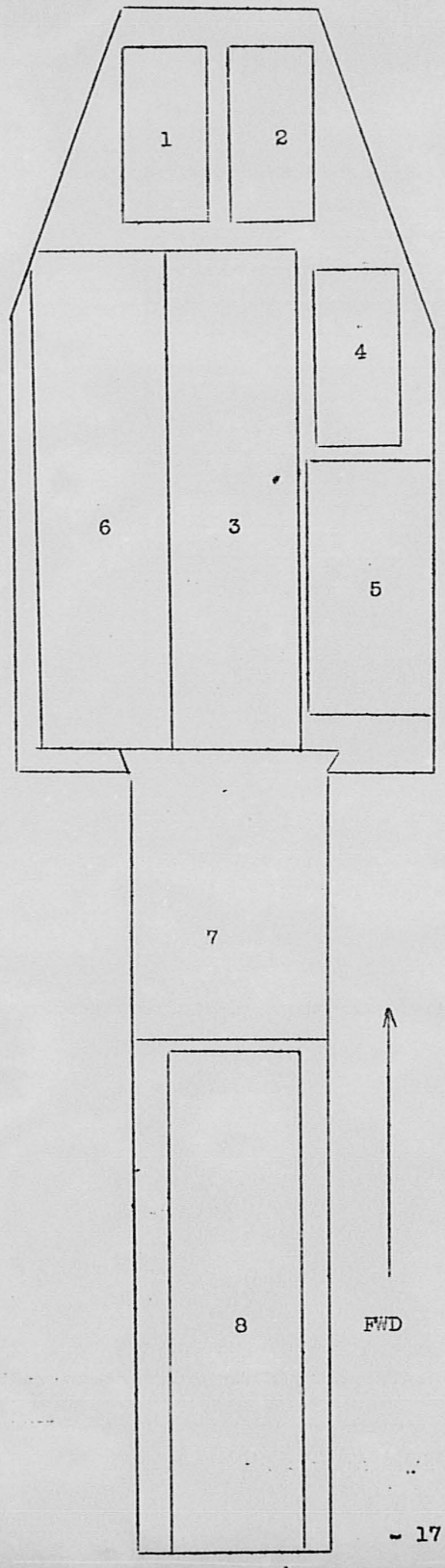
UNIT	IND	VEH
36th Engr Regt	26	8
72nd Signal Co	24	4
815th MP Co	24	
1st Naval Beach Bn	1	
TOTAL	75	12

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LOADING LIST - LCT 11
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	36th Engr Regt	
2	1/4-ton C&R	" "	
3	DUKW	" "	
4	1/4-ton C&R	" "	
5	TD-18	" "	
6	DUKW	" "	
7	D7 Angledozer	1st Naval B Bn	
8	DUKW	" "	

RECAPITULATION

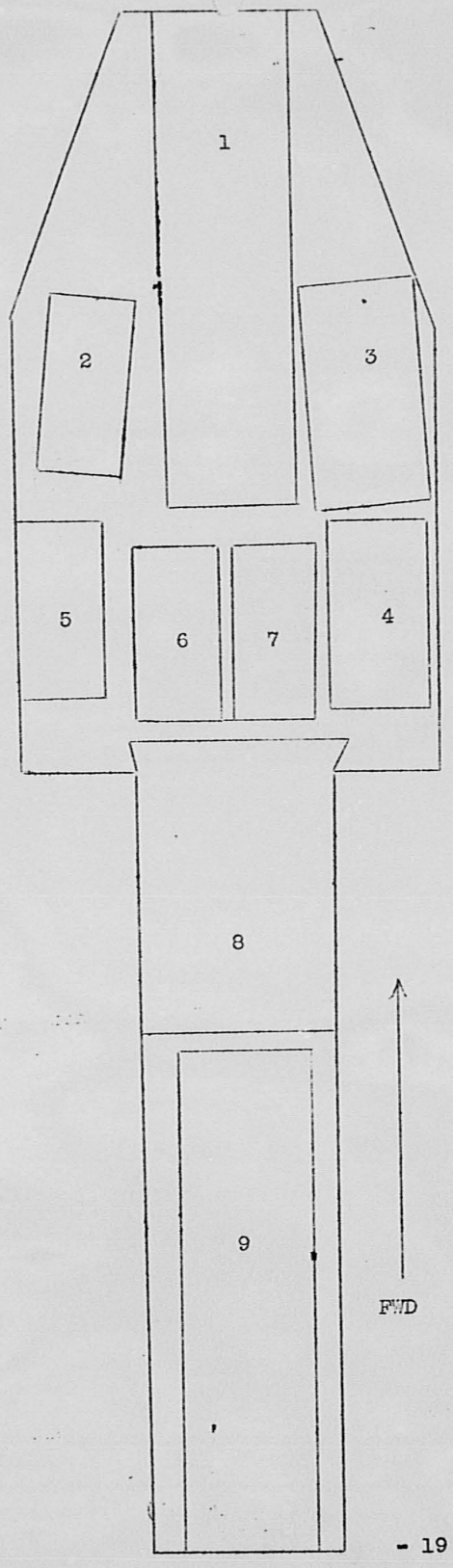
UNIT	IND.	VEH
36th Engr Regt	17	7
1st Naval Beach Bn	3	1
45 Engr Dep	3	
332 Sv Grp (Air Force)	5	
72nd Signal Co	25	
TOTAL	53	8

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S E C R E T

LOADING LIST - LCT 12
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW	36th Engr Regt	
2	1/4-ton C&R	" "	
3	3/4-ton	72nd Signal Co	
4	1-ton Trailer	" "	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	1/4-ton C&R	36th Engr Regt	
8	D7 Angledozer	" "	
9	DUKW	1st Naval Beach Bn	

RECAPITULATION

UNIT	IND	VEH
36th Engr Regt	16	5
72nd Signal Co	24	4
52nd QM Bn	6	
93 QM Rhd	7	
77 Ord Dep	4	
TOTAL	57	9

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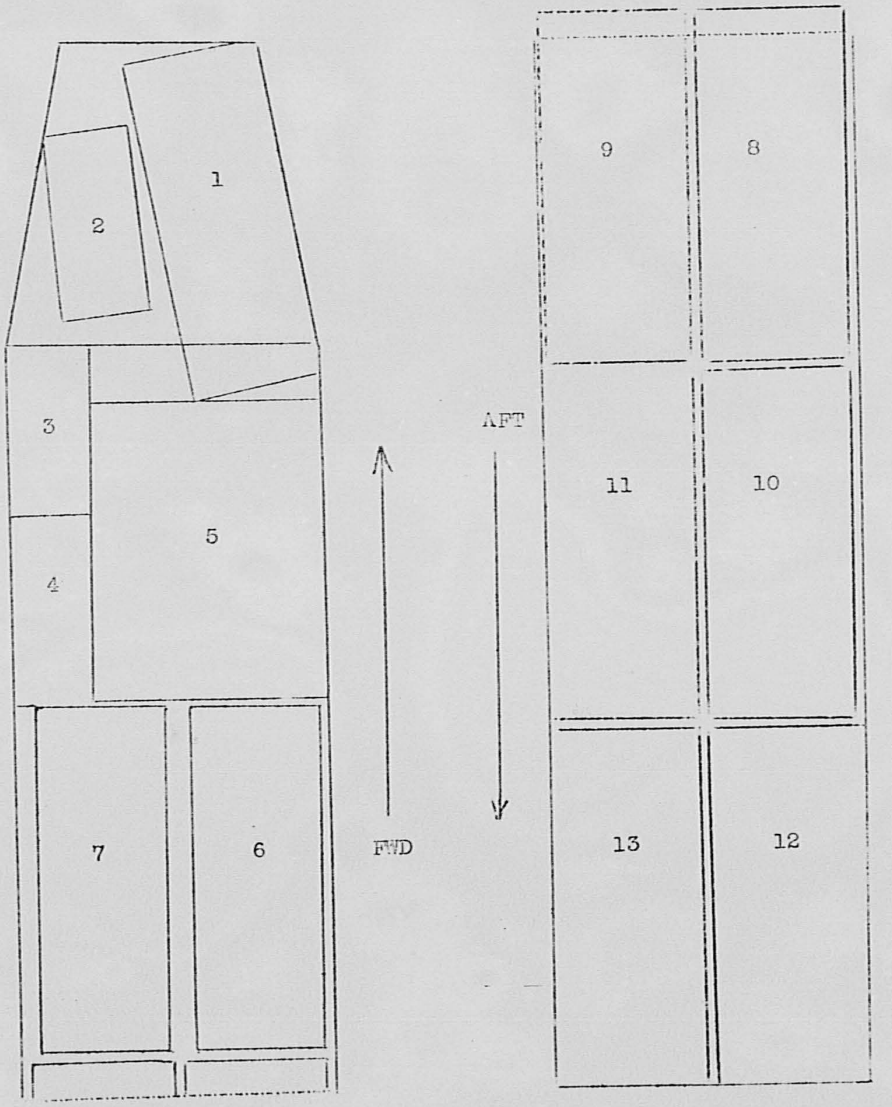
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LOADING LIST - LOT 13
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	M3	69th Armd FA Bn	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	1/4-ton C&R		
5	D-7	1st Naval Beach Bn	
6	M-3	69th Armd FA Bn	
7	M-3	" "	
8	M-7	" "	
9	M-7	" "	
10	M-7	" "	
11	M-7	" "	
12	M-7	" "	
13	M-7	" "	

RECAPITULATION

UNIT	IND	VEH
69th Armd FA Bn	65	12
1st Naval Beach Bn	2	1
TOTAL	67	13

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LOADING LIST - LST 13
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W.NUMBER
1	M3	69th Armd Fl. Bn	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	1/4-ton C&R		
5	D-7	1st Naval Beach Bn	
6	M-3	69th Armd Fl. Bn	
7	M-3	" "	
8	M-7	" "	
9	M-7	" "	
10	M-7	" "	
11	M-7	" "	
12	M-7	" "	
13	M-7	" "	

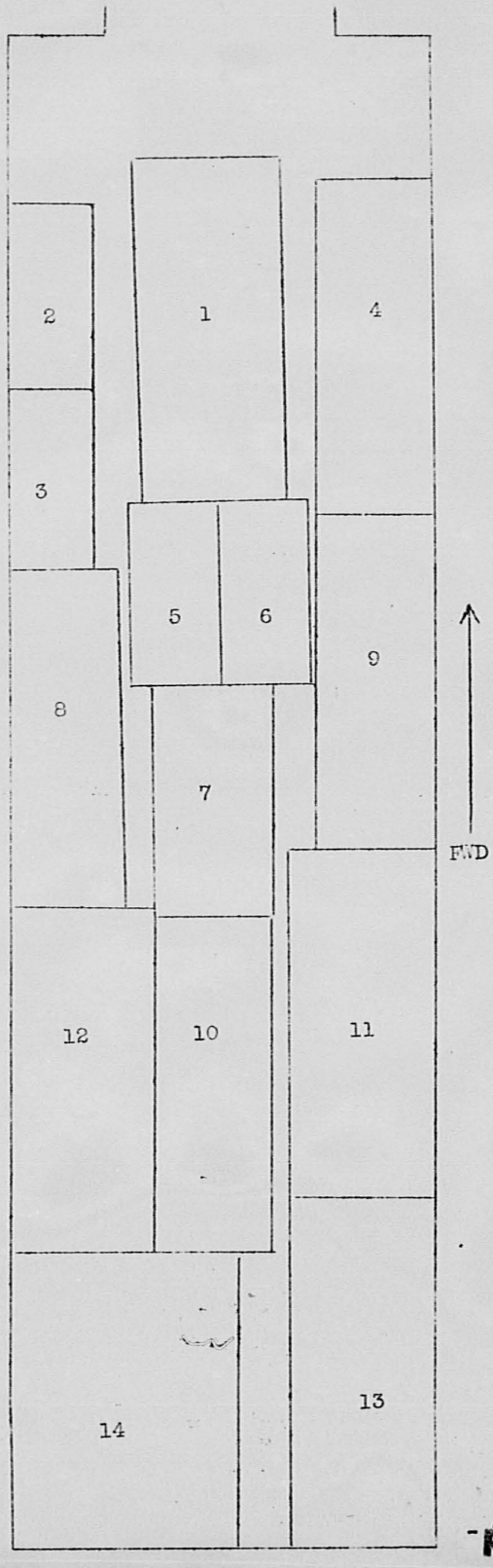
RECAPITULATION

UNIT	IND	VEH
69th Armd Fl. Bn.	65	12
1st Naval Beach Bn	2	1
TOTAL	67	13

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LOADING LIST - LCT 14

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	M-7	69th Armd F.A. Bn	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	Halftrack	" "	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	3/4-ton C&R	3rd Signal Co	
8	Halftrack	69th Armd F.A. Bn.	
9	Halftrack	" "	
10	Halftrack	" "	
11	M-7	" "	
12	M-7	" "	
13	M-7	" "	
14	D-7	1st Naval Beach Bn	

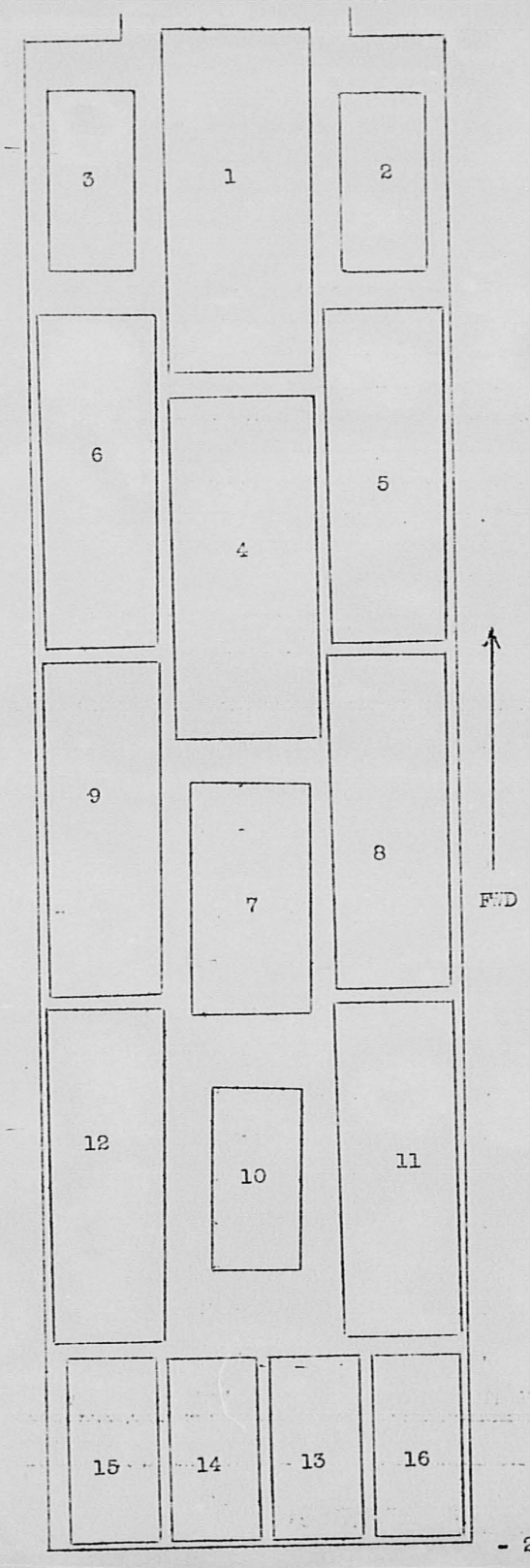
RECAPITULATION

UNIT	IND	VEH
69th Armd F.A. Bn.	62	12
3rd Signal Co	6	1
1st Naval Beach Bn	2	1
TOTAL	70	14

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LOADING LIST - UCT 15
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	M-7	69th Armd FA Bn	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	M-7	" "	
5	M-3 Halftrack	" "	
6	M-3 Halftrack	" "	
7	3/4-ton	" "	
8	M-3 Halftrack	" "	
9	Halftrack	" "	
10	1/4-ton C&R	" "	
11	M-3	" "	
12	M-3 Halftrack	" "	
13	1/4-ton C&R	" "	
14	1/4-ton C&R	" "	
15	1/4-ton C&R	" "	
16	1/4-ton C&R	" "	

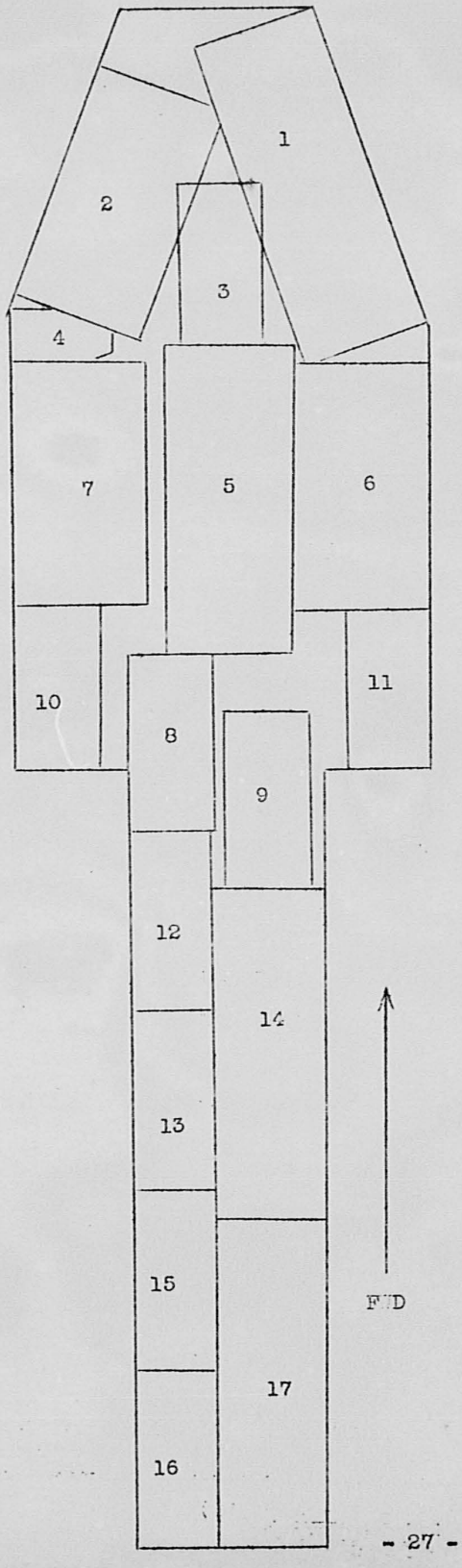
RECAPITULATION

UNIT	IND	VEH
69th Armd F.A. Bn.	68	16
TOTAL	68	16

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LCT (6)

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LOADING LIST - LOT 16
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	AAA Halftrack	441st AAA Bn	
2	Car, M8	3rd Recn Trp	
3	1/4-ton C&R	441st AAA Bn	
4	1/4-ton Trailer	" "	
5	AAA Halftrack	" "	
6	Car, M8	3rd Recon Trp	
7	Car, M8	" "	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	" "	
13	1/4-ton C&R	" "	
14	Halftrack	441st AAA Bn	
15	1/4-ton C&R	3rd Recon Trp	
16	1/4-ton Trailer	" "	
17	AAA Halftrack	441st AAA Bn	

RECAPITULATION

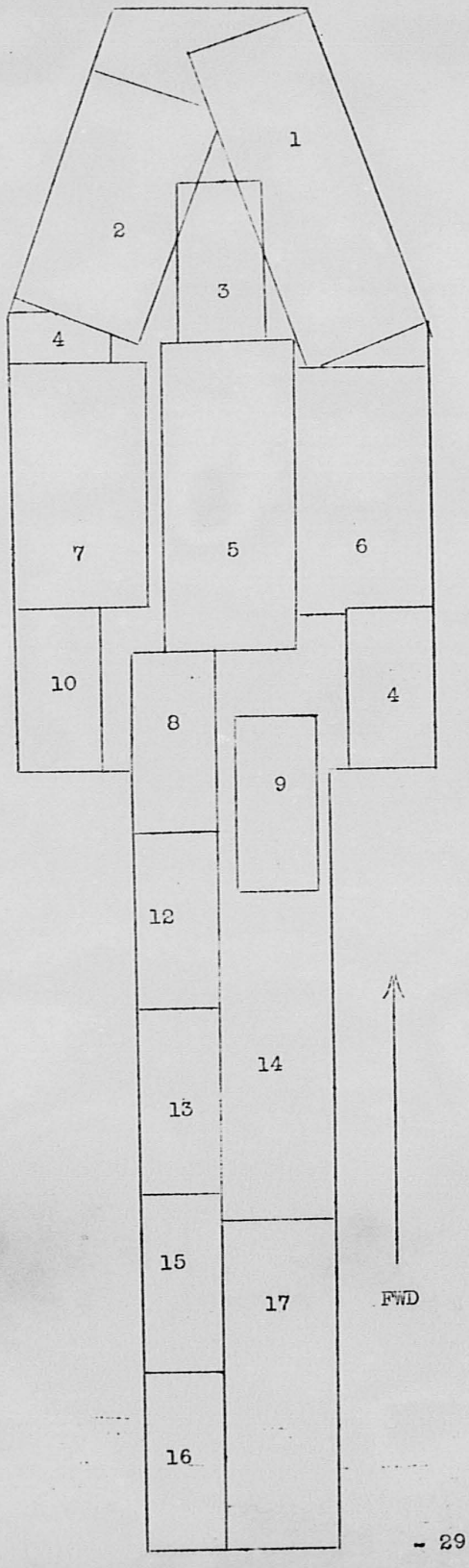
UNIT	IND	VEH
3rd Recon Trp	33	11
441st AAA Bn	40	6
TOTAL	73	17

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S E C R E T

LOADING LIST - LCT 17

(In order of priority for discharge)

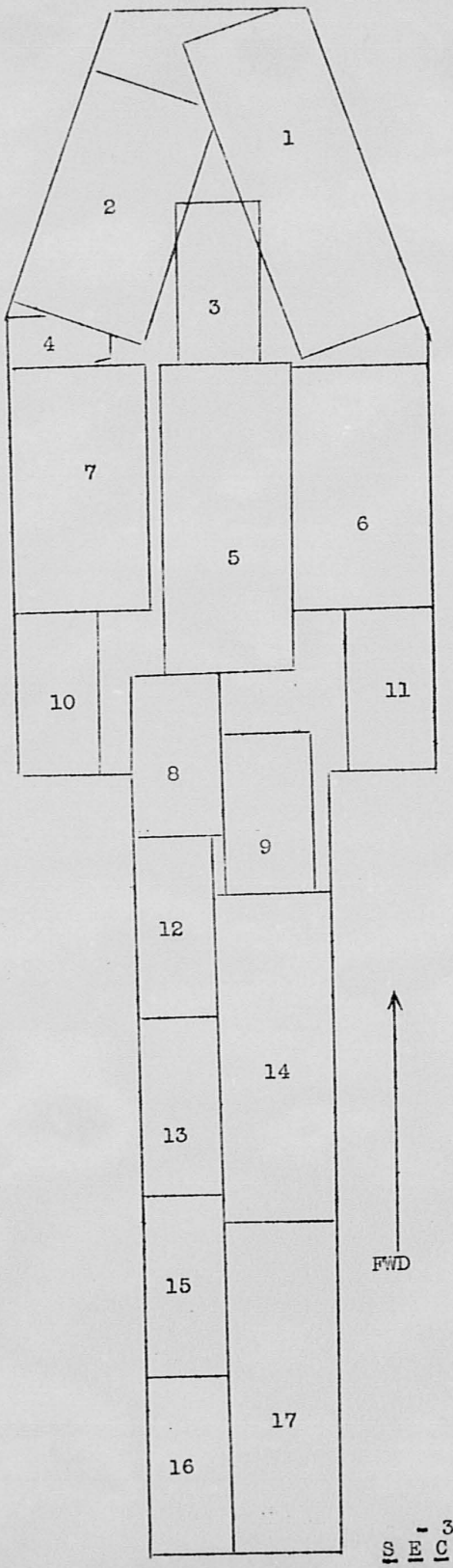
PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	AAA Halftrack	441st AAA Bn	
2	Car, M8	3rd Recon Trp	
3	1/4-ton C&R	441st AAA Bn	
4	1/4-ton Trailer	" "	
5	AAA Halftrack	" "	
6	Car, M8	3rd Recon Trp	
7	Car, M8	" "	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	" "	
13	1/4-ton Trailer	" "	
14	AAA Halftrack	441st AAA Bn	
15	1/4-ton C&R	3rd Recon Trp	
16	1/4-ton Trailer	" "	
17	AAA Halftrack	441st AAA Bn	

RECAPITULATION		
UNIT	IND	VEH
3rd Recon Trp	30	11
441st AAA Bn	40	6
TOTAL	70	17

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LCT (6)

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S E C R E T

LOADING LIST - LCT 18

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	AAA Halftrack	441st AAA Bn	
2	Car, M8	3rd Recon Trp	
3	1/4-ton C&R	441st AAA Bn	
4	1/4-ton Trailer	" "	
5	AAA Halftrack	" "	
6	Car, M8	3rd Recon Trp	
7	Car, M8	" "	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	" "	
13	1/4-ton Trailer	" "	
14	AAA Halftrack	441st AAA Bn	
15	1/4-ton C&R	3rd Recon Trp	
16	1/4-ton Trailer	" "	
17	AAA Halftrack	441st AAA Bn	

R E C A P I T U L A T I O N

UNIT	IND	VEH
3rd Recon Trp	30	11
441st AAA Bn	40	6
TOTAL	70	17

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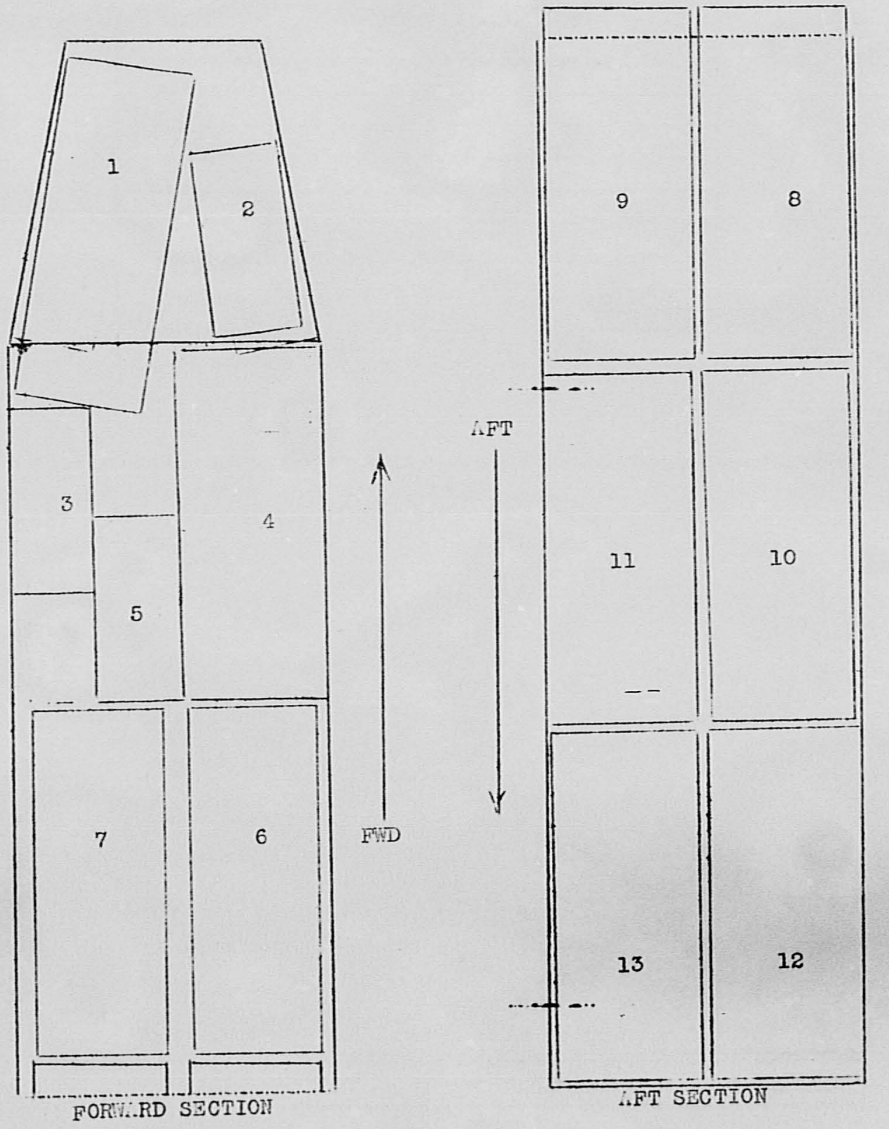
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S E C R E T

LOADING LIST - LCT 19

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Halftrack	69th Armd FA Bn	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	M-3	" "	
5	Halftrack	" "	
6	M-3	" "	
7	M-3	" "	
8	M-7	" "	
9	M-7	" "	
10	M-7	" "	
11	M-7	" "	
12	M-7	" "	
13	M-7	" "	

RECAPITULATION

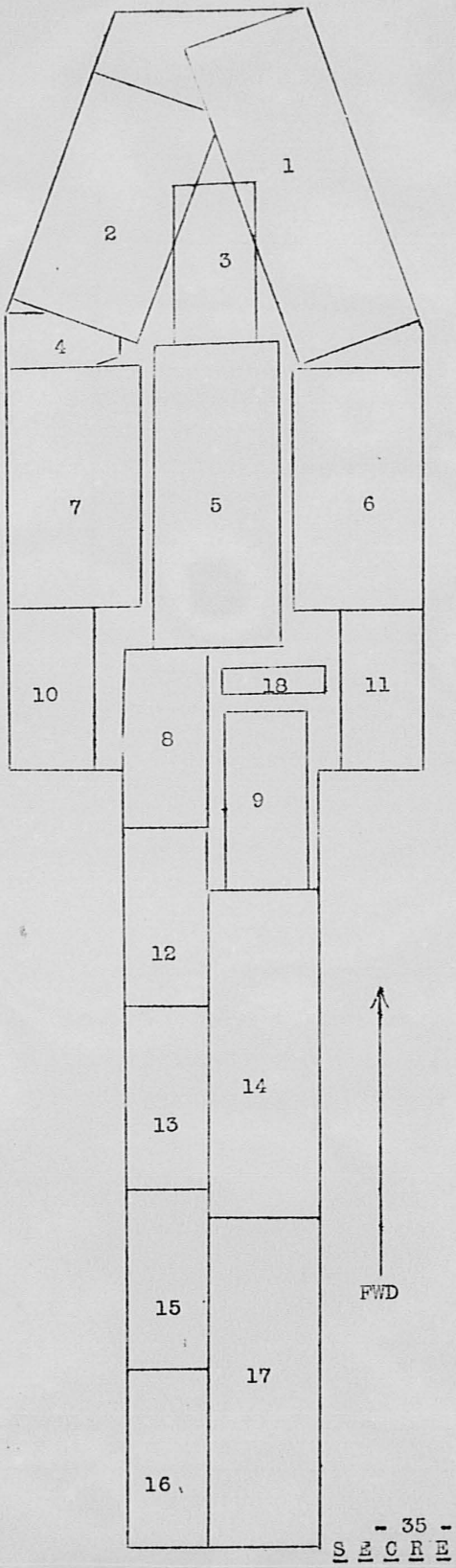
UNIT	IND.	VEH.
69th Armd F.A. Bn.	65	13
TOTAL	65	13

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LCT (6)

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LOADING LIST LCT 20
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMPER
1	AAA Halftrack	441st AAA Bn	
2	Car, M8	C Trp, 117 Recon	
3	1/4-ton C&R	441st AAA Bn	
4	1/4-ton Trailer	" "	
5	AAA Halftrack	" "	
6	Car, M8	C Trp, 117 Recon	
7	3/4-ton	3rd Div MP Plat	
8	1/4-ton C&R	C Trp, 117 Recon	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	" "	
13	1/4-ton C&R	" "	
14	Halftrack	441st AAA Bn	
15	1/4-ton C&R	C Trp, 117 Recon	
16	1/4-ton Trailer	C Trp, 117 Recon	
17	AAA Halftrack	441st AAA Bn	
18	Motorcycle	C Trp, 117 Recon	

RECAPITULATION

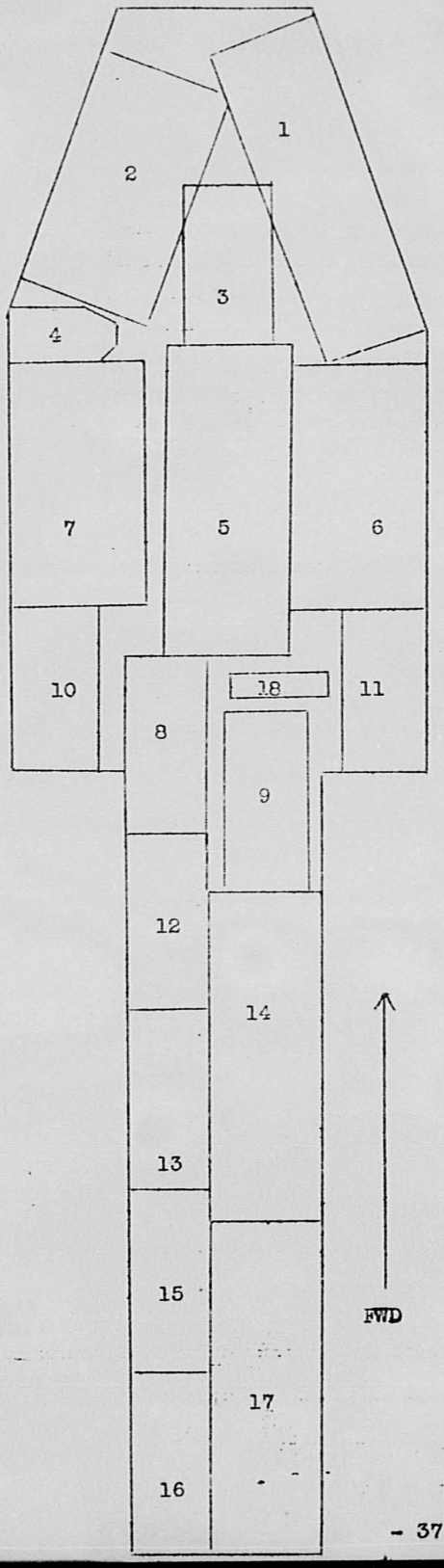
UNIT	IND	VEH
117 Recon, Trp "C"	27	11
441st AAA Bn	40	6
3rd Div. MP	4	1
TOTAL	71	18

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LCT (6)

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S E C R E T

LOADING LIST - LCT 21
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	AAA Halftrack	441st AAA Bn	
2	Car, M8	C Trp, 117 Recon	
3	1/4-ton C&R	441st AAA Bn	
4	1/4-ton Trailer	" "	
5	AAA Halftrack	" "	
6	Car, M8	C Trp, 117 Recon	
7	Car, M8	C Trp, 117 Recon	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	" "	
13	1/4-ton Trailer	" "	
14	AAA Halftrack	441st AAA Bn	
15	1/4-ton C&R	C Trp, 117 Recon	
16	1/4-ton Trailer	" "	
17	AAA Halftrack	441st AAA Bn	
18	Motorcycle	C Trp, 177 Recon	

RECAPITULATION

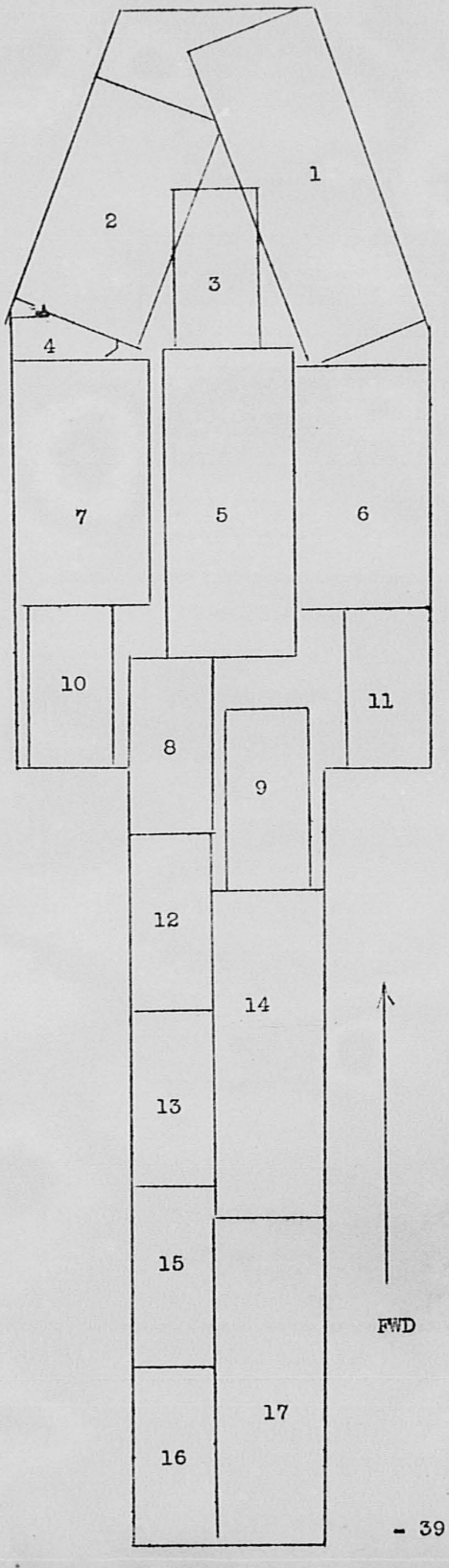
UNIT	IND	VEH
117 Recon, Trp "C"	30	12
441st AAA Bn	40	6
TOTAL	70	18

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LCT (6)

ASN.....22.....

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LOADING LIST - LCT 22
(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1 - -	AAA Halftrack	441st AAA Bn	
2	Car, M8	C Trp, 177 Recon	
3	1/4-ton C&R	441st AAA Bn	
4	1/4-ton Trailer	" "	
5	AAA Halftrack	" "	
6	Car, M8	C Trp, 177 Recon	
7	Car, M8	" "	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	" "	
11	1/4-ton C&R	" "	
12	1/4-ton C&R	" "	
13	1/4-ton Trailer	" "	
14	AAA Halftrack	441st AAA Bn	
15	1/4-ton C&R	C Trp, 117 Recon	
16	1/4-ton Trailer	" "	
17	AAA Halftrack	441st AAA Bn	

RECAPITULATION

UNIT	IND	VEH
C Trp, 117 Recon	30	11
441st AAA Bn	40	6
TOTAL	70	17

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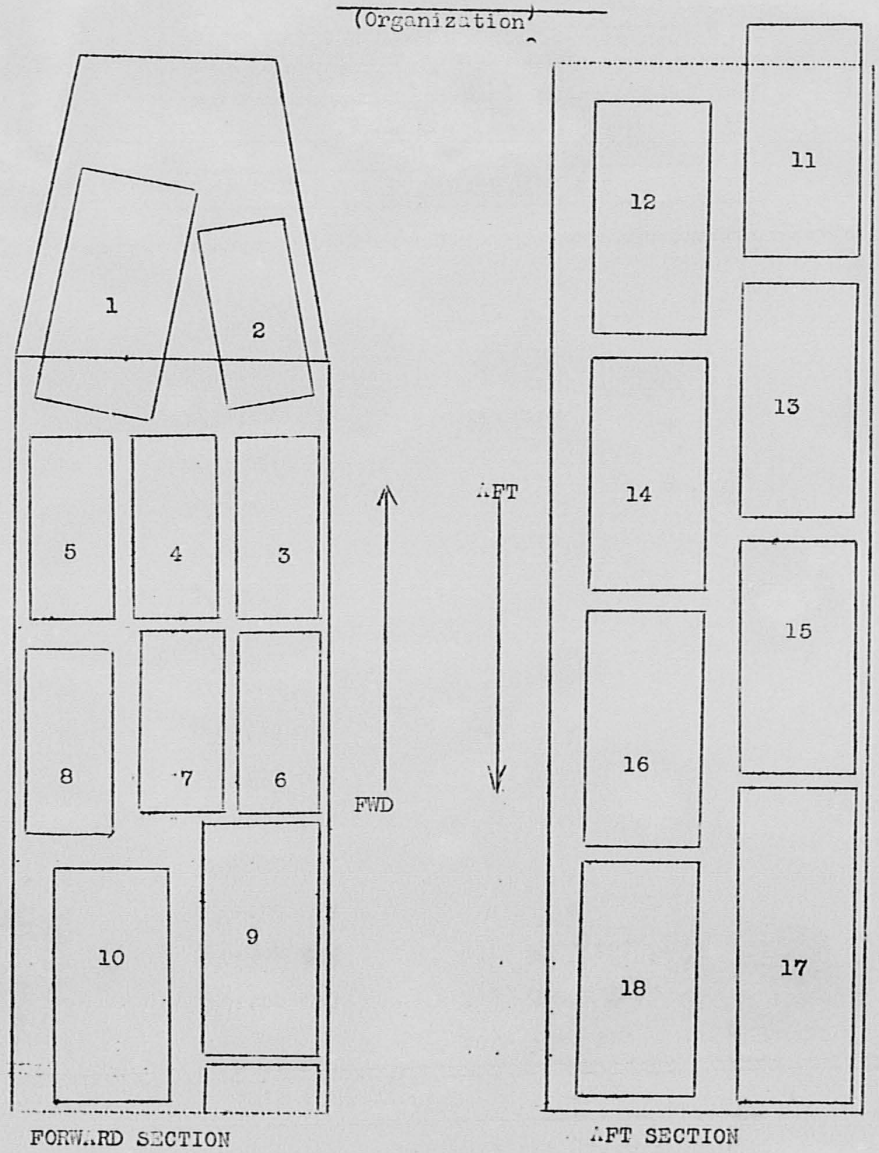
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FORWARD SECTION

AFT SECTION

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S E C R E T

LOADING LIST - LCT 23
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	3/4-ton	10th F.A. Bn.	
2	1/4-ton C&R	Hqs, 3rd I.D.A.	
3	1/4-ton C&R	10th F.A. Bn.	
4	1/4-ton C&R	" "	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	1/4-ton C&R	" "	
8	1/4-ton C&R	" "	
9	3/4-ton	" "	
10	3/4-ton	" "	
11	3/4-ton	" "	
12	3/4-ton	" "	
13	3/4-ton	" "	
14	3/4-ton	" "	
15	3/4-ton	" "	
16	3/4-ton	" "	
17	1½-ton	Hqs, 3rd I.D.A.	
18	3/4-ton	" "	

RECAPITULATION

UNIT	IND	VEH
Hqs, 3rd I.D.A.	20	3
10th F.A. Bn.	45	15
TOTAL	65	18

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LCT (3)

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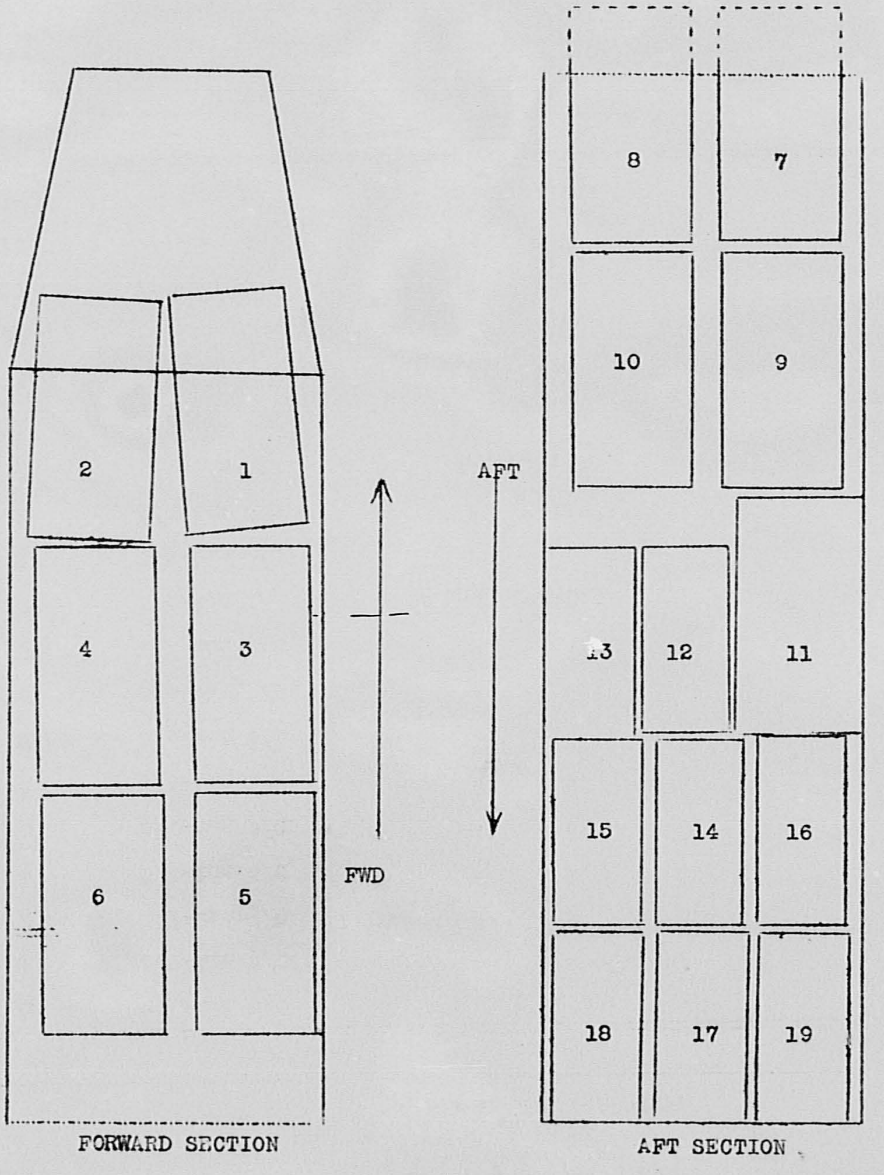
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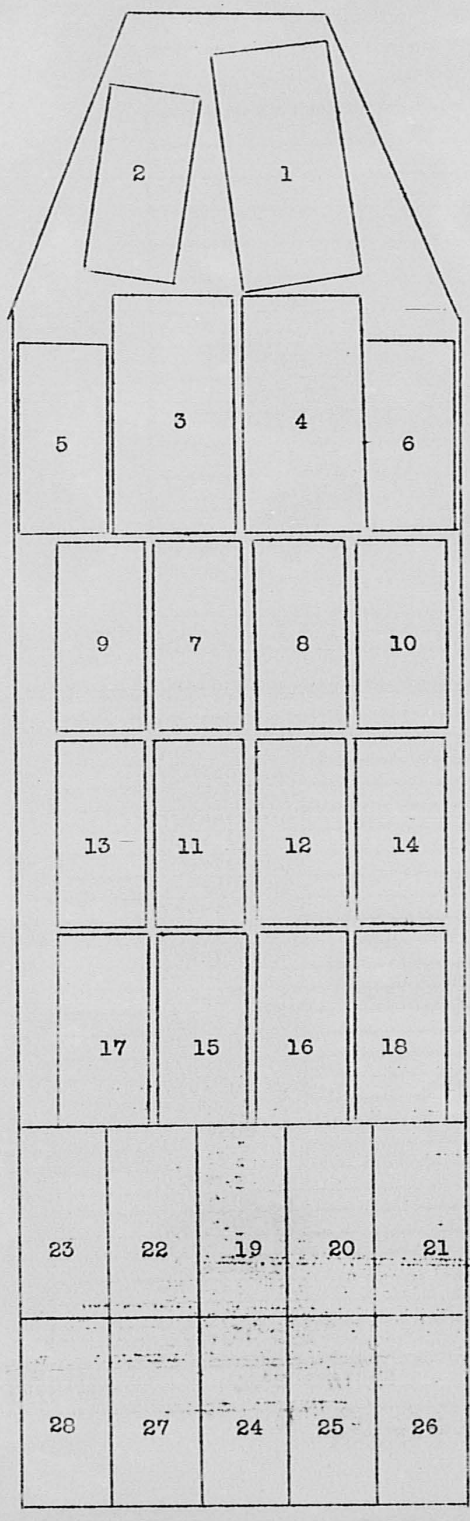


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LCT (5)

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SECRET

LOADING LIST - LCT 25
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	3/4-ton W/C	Air Section, 3d IDA	
2	1/4-ton C&R	2nd Obs. Bn	
3	3/4-ton W/C	9th F.A. Bn.	
4	3/4-ton W/C	Hqs, 3rd I.D.A.	
5	1/4-ton C&R	S.F.C.P., 10th FA Bn	
6	1/4-ton C&R	" " "	
7	1/4-ton C&R	" ", Hqs 3d IDA	
8	1/4-ton C&R	" ", 10th FA Bn	
9	1/4-ton C&R	" " "	
10	1/4-ton C&R	" " "	
11	1/4-ton C&R	" " "	
12	1/4-ton C&R	" ", 41st FA Bn	
13	1/4-ton C&R	" " "	
14	1/4-ton C&R	" " "	
15	1/4-ton C&R	" " "	
16	1/4-ton C&R	" " "	
17	1/4-ton C&R	" " "	
18	1/4-ton C&R	Hqs, 3rd I.D.A.	
19	1/4-ton C&R	"	
20	1/4-ton C&R	9th F.A. Bn.	
21	1/4-ton C&R	" "	
22	1/4-ton C&R	" "	
23	1/4-ton C&R	36th F.A. Bn.	
24	1/4-ton C&R	" "	
25	1/4-ton C&R	634th FA Bn	
26	1/4-ton C&R	" "	
27	1/4-ton C&R	" "	
28	1/4-ton C&R	" "	

RECAPITULATION

UNIT	IND	VEH
Hq 3rd Inf Div Arty	16	4
9th FA Bn	15	4
36th FA Bn	6	2
634th FA Bn	12	4
2nd Obs Bn	4	1
S.F.C.P.	13	13
TOTAL	66	28

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LCT (3)

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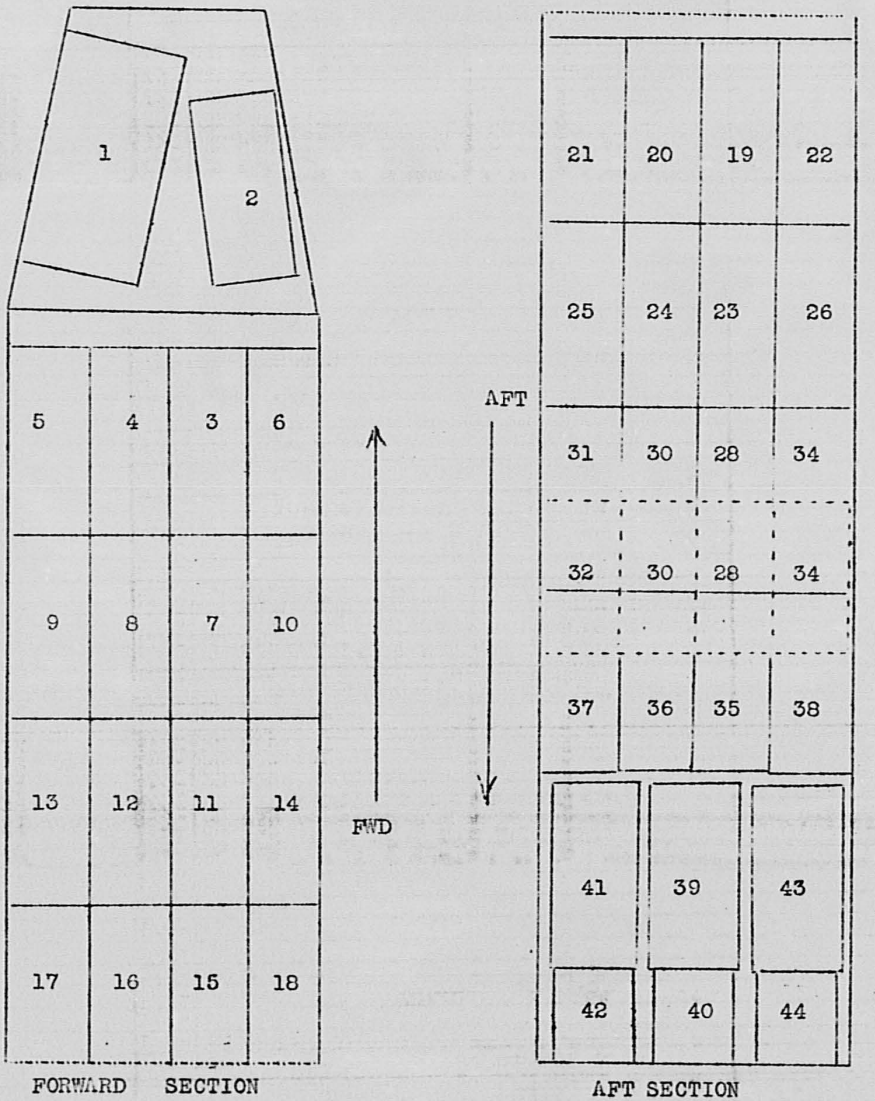
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LOADING LIST -- LCT 26

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	3/4-ton	3rd Signal Co	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	1/4-ton C&R	7th Infantry	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	1/4-ton C&R	" "	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	10th FA Bn	
11	1/4-ton C&R	7th Infantry	
12	1/4-ton C&R	" "	
13	1/4-ton C&R	" "	
14	1/4-ton C&R	" "	
15	1/4-ton C&R	" "	
16	1/4-ton C&R	" "	
17	1/4-ton C&R	10th FA Bn	
18	1/4-ton C&R	7th Infantry	
19	1/4-ton C&R	" "	
20	1/4-ton C&R	" "	
21	1/4-ton C&R	" "	
22	1/4-ton C&R	" "	
23	1/4-ton C&R	" "	
24	1/4-ton C&R	10th FA Bn	
25	1/4-ton C&R	AS Comd Sqd	
26	1/4-ton C&R	10th FA Bn	
27	1/4-ton C&R	7th Infantry	
28	1/4-ton Trailer	" "	
29	1/4-ton C&R	" "	
30	1/4-ton Trailer	" "	
31	1/4-ton C&R	" "	
32	1/4-ton Trailer	" "	
33	1/4-ton C&R	" "	
34	1/4-ton Trailer	" "	
35	1/4-ton C&R	" "	
36	1/4-ton C&R	" "	
37	1/4-ton C&R	" "	
38	1/4-ton C&R	" "	
39	1/4-ton C&R	" "	
40	1/4-ton Trailer	" "	
41	1/4-ton C&R	" "	
42	1/4-ton Trailer	" "	
43	1/4-ton C&R	" "	
44	1/4-ton Trailer	" "	

RECAPITULATION

UNIT	IND	VEH
7th Infantry	45	36
10th FA Bn	5	4
3rd Signal Co	12	3
AS Comd Sqd	2	1
TOTAL	64	44

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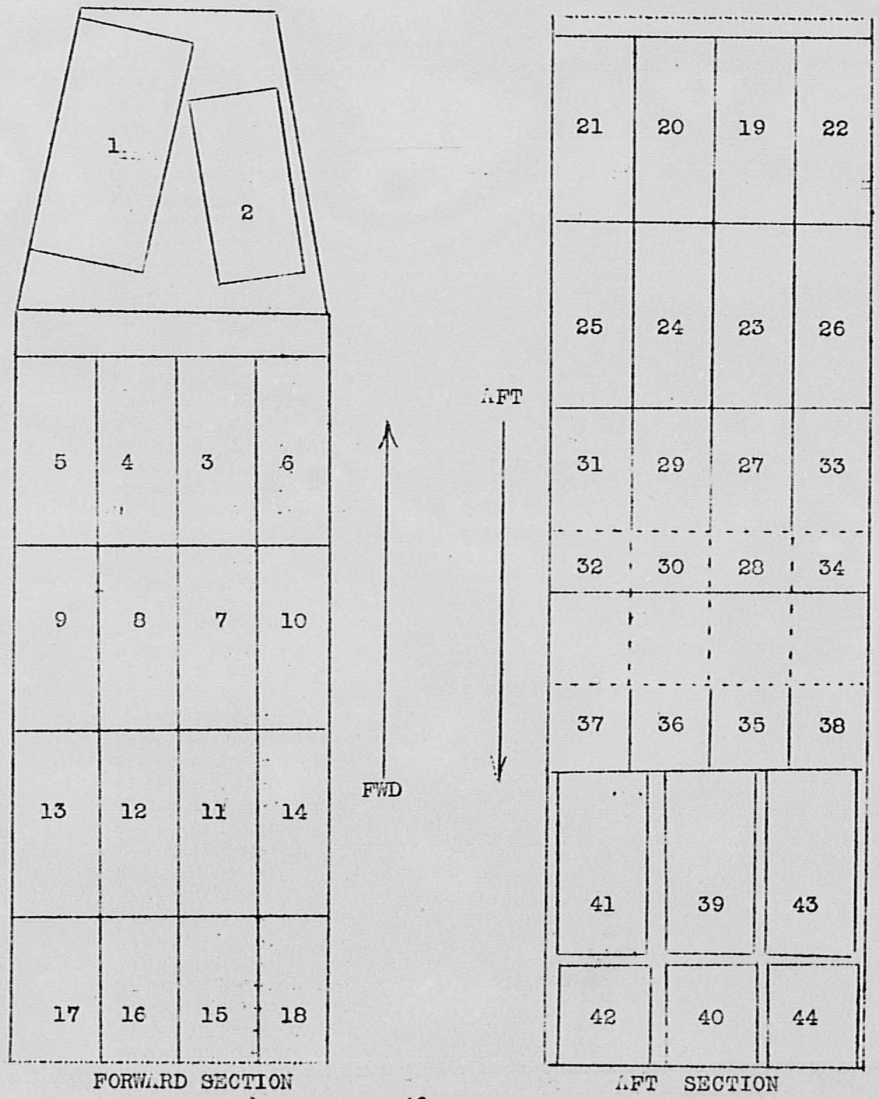
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S E C R E T

LOADING LIST - LCT 27

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	3/4-ton Truck	3rd Signal Co	
2	1/4-ton C&R	" "	
3	1/4-ton C&R	" "	
4	1/4-ton C&R	30th Infantry	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	1/4-ton C&R	" "	
8	1/4-ton C&R	" "	
9	1/4-ton C&R	" "	
10	1/4-ton C&R	41st F.A. Bn.	
11	1/4-ton C&R	30th Infantry	
12	1/4-ton C&R	" "	
13	1/4-ton C&R	" "	
14	1/4-ton C&R	" "	
15	1/4-ton C&R	" "	
16	1/4-ton C&R	" "	
17	1/4-ton C&R	41st F.A. Bn.	
18	1/4-ton C&R	30th Infantry	
19	1/4-ton C&R	" "	
20	1/4-ton C&R	" "	
21	1/4-ton C&R	" "	
22	1/4-ton C&R	" "	
23	1/4-ton C&R	" "	
24	1/4-ton C&R	41st F.A. Bn	
25	1/4-ton C&R	AS Comd Sqd	
26	1/4-ton C&R	41st F.A. Bn.	
27	1/4-ton C&R	30th Infantry	
28	1/4-ton Trailer	" "	
29	1/4-ton C&R	" "	
30	1/4-ton Trailer	" "	
31	1/4-ton C&R	" "	
32	1/4-ton Trailer	" "	
33	1/4-ton C&R	" "	
34	1/4-ton Trailer	" "	
35	1/4-ton C&R	" "	
36	1/4-ton C&R	" "	
37	1/4-ton C&R	" "	
38	1/4-ton C&R	" "	
39	1/4-ton C&R	" "	
40	1/4-ton Trailer	" "	
41	1/4-ton C&R	" "	
42	1/4-ton Trailer	" "	
43	1/4-ton C&R	" "	
44	1/4-ton Trailer	" "	

R E C A P I T U L A T I O N

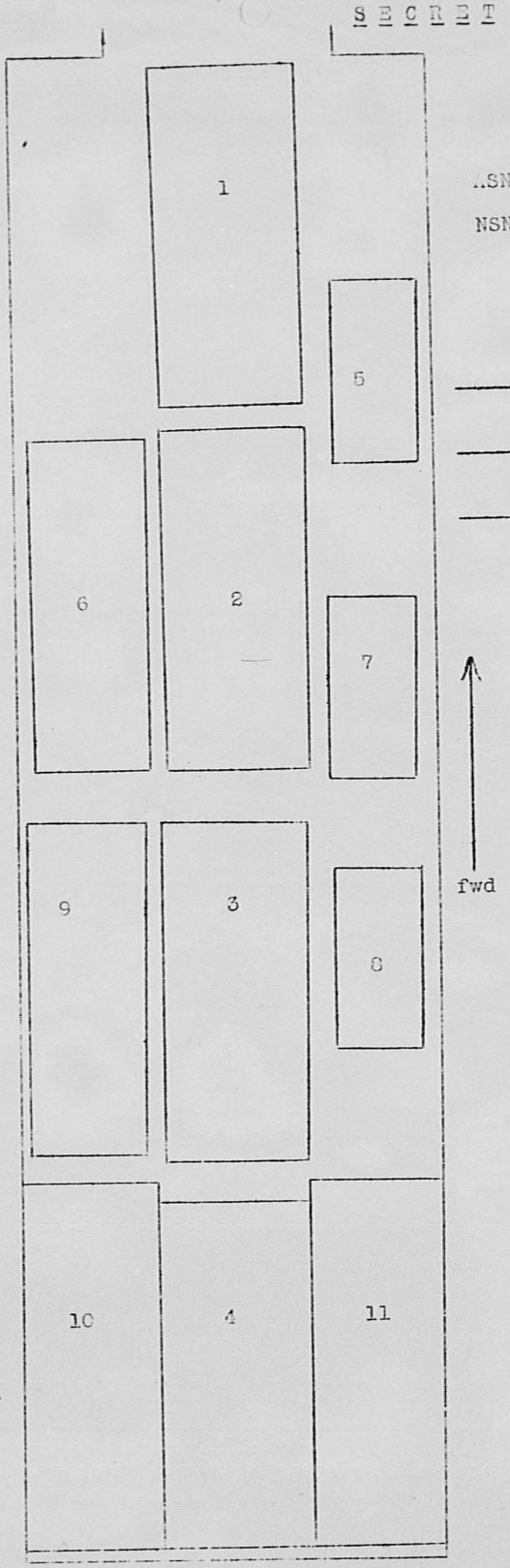
UNIT	IND.	VEH.
30th Infantry	45	36
41st FA Bn	5	4
3rd Sig Co	12	3
AS Comd Sqd	2	1
Total	64	44

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LCT (4)

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LOADING LIST LOT 28

(In order of priority for discharge)

PRIORITY	TYPE OF VEHICLE	UNIT	W-NUMBER
1	Tank (M)	756th Tk Bn	
2	Tank (M)	756th Tk Bn	
3	M-10	601 TD Bn	
4	M-10	601 TD Bn	
5	1/4 T C&R	756th Tk Bn	
6	Half-track	"	
7	1/4 T C&R	"	
8	1/4 T C&R	"	
9	Half-track	"	
10	2½ T Trk	"	
11	2½ T Trk	"	

R E C A P I T U L A T I O N

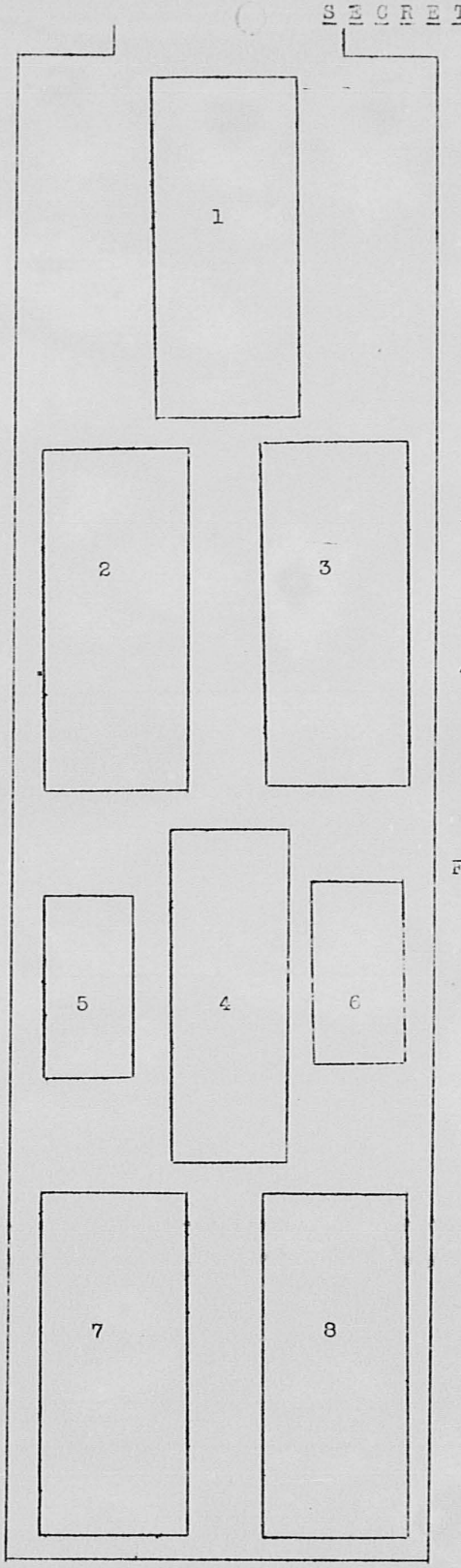
UNIT	IND	VEH
756th Tk Bn	30	9
601 TD Bn	10	2
Total	40	11

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LCT (4)

ASN.. 29.....

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S E C R E T

LOADING LIST LCT 29
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Tank (M)	756th Tk Bn	
2	Tank (M)	756th Tk Bn	
3	M-10 TD	601 TD Bn	
4	Halftrack	756th Tk Bn	
5	1/4 T C&R	"	
6	1/4 T C&R	"	
7	Tank (M)	"	
8	Tank (M)	"	

R E C A P I T U L A T I O N

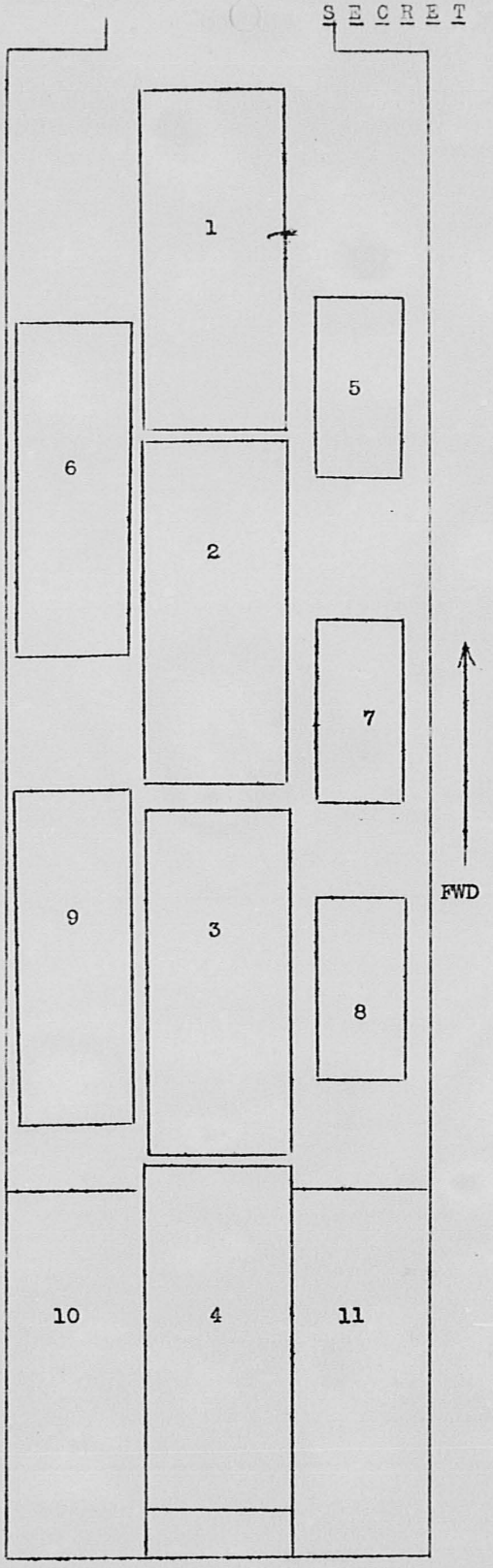
UNIT	IND	VEH
756th Tk Bn	30	7
601 TD Bn	5	1
Total	35	8

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LCT (4)

ASN.....30...

NSN.....

TQM

_____
(Name)

_____
(Rank)

_____
(Organization)

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S E C R E T

LOADING LIST LCT 30

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Tank (M)	756th Tk Bn	
2	Tank (M)	"	
3	Tank (M)	"	
4	M-10 TD	601 TD Bn	
5	1/4 T C&R	756th Tk Bn	
6	Halftrack	"	
7	1/4 T C&R	"	
8	1/4 T C&R	"	
9	Halftrack	"	
10	2½ T Trk	"	
11	2½ T Trk	"	

R E C A P I T U L A T I O N

UNIT	IND	VEH
756th Tk Bn	36	10
601 TD Bn	5	1
Total	41	11

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LOT (3)

ASN... 31..... ....

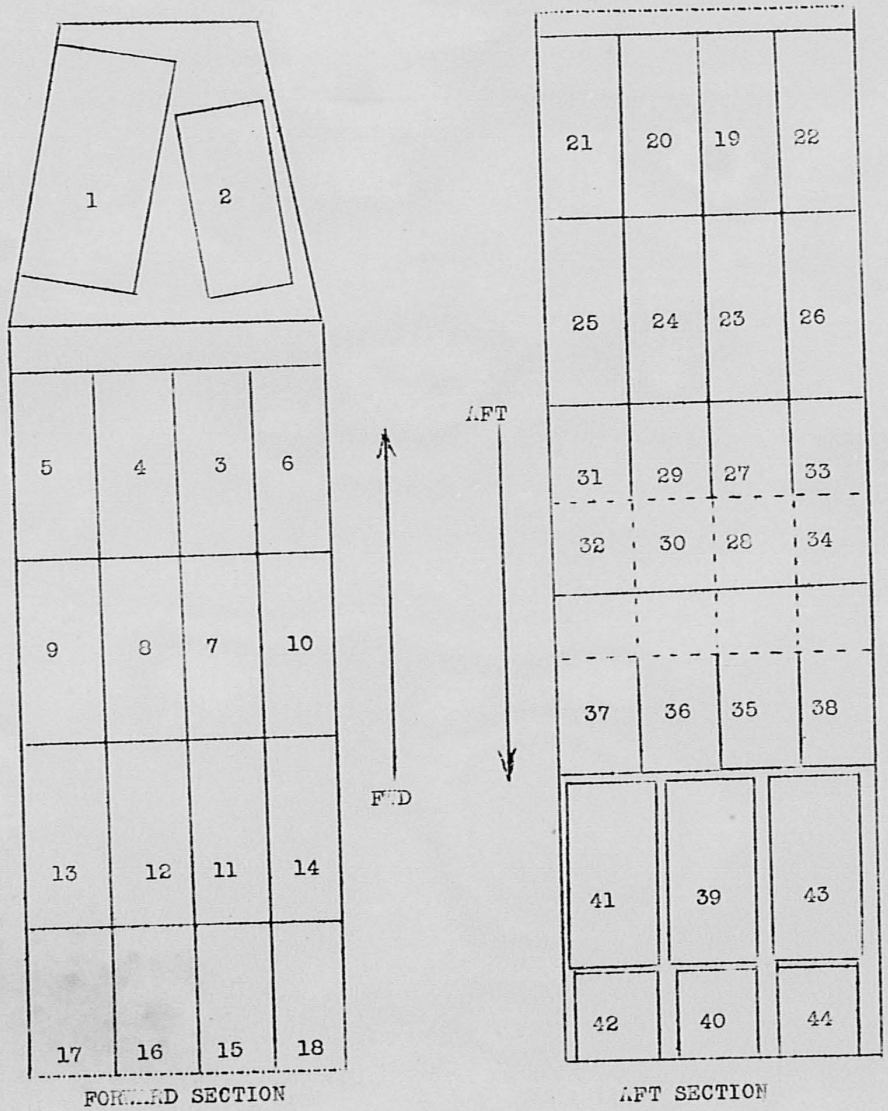
NSN..... .....

TO:

_____ (GRADE)

_____ (NAME)

_____ (ORGN



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LOADING LIST - LCT 31
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	3/4 T Trk	3rd Sig Co	
2	1/4 T Trk C&R	"	
3	"	"	
4	"	15th Inf	
5	"	"	
6	"	"	
7	"	"	
8	"	"	
9	"	"	
10	"	39th FA Bn	
11	"	15th Inf	
12	"	"	
13	"	"	
14	"	"	
15	"	"	
16	"	"	
17	"	39th FA Bn	
18	"	15th Inf	
19	"	"	
20	"	"	
21	"	"	
22	"	"	
23	"	"	
24	"	39th FA Bn	
25	"	AS Comd Sqd	
26	"	39th FA Bn	
27	"	15th Inf	
28	1/4 T Trl	"	
29	1/4 T C&R	"	
30	1/4 T Trl	"	
31	1/4 T C&R	"	
32	1/4 T Trl	"	
33	1/4 T C&R	"	
34	1/4 T Trl	"	
35	1/4 T C&R	"	
36	1/4 T C&R	"	
37	"	"	
38	"	"	
39	"	"	
40	1/4 T Trl	"	
41	1/4 T C&R	"	
42	1/4 T Trl	"	
43	1/4 T C&R	"	
44	1/4 T Trl	"	

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RECAPITULATION

UNIT	IND	VEH
15th Inf	45	36
39th FA Bn	5	4
3rd Sig Co	12	3
AS Comd SQD	2	1
TOTAL	64	44

SECRET
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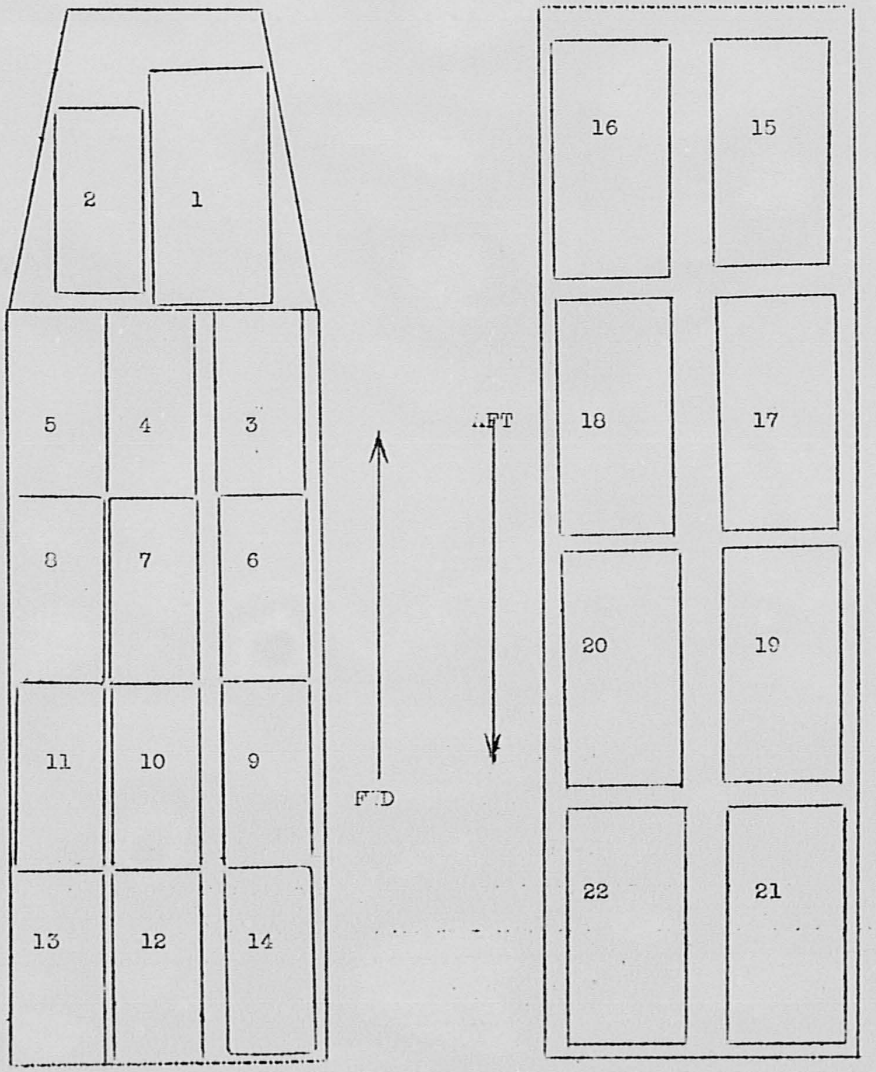
NSN.....

TOM

_____
(NAME)

_____
(RANK)

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(ORGN)



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LOADING LIST LCT 32
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W NUMBER
1	3/4 T W/C	39th F.A. Bn	
2	1/4 T Trk	39th F.A. Bn	
3	"	Air Sect, 39th F.A.	
4	"	39th F.A. Bn	
5	"	39th F.A. Bn	
6	"	39th F.A. Bn	
7	"	39th F.A. Bn	
8	"	SFCP, 39th F.A.	
9	"	SFCP, 39th F.A.	
10	"	SFCP, 39th F.A.	
11	"	SFCP, 39th F.A.	
12	"	SFCP, 39th F.A.	
13	"	SFCP, 39th F.A.	
14	"	39th F.A. Bn	
15	3/4 T Trk	39th F.A. Bn	
16	"	39th F.A. Bn	
17	"	39th F.A. Bn	
18	"	39th F.A. Bn	
19	"	39th F.A. Bn	
20	"	39th F.A. Bn	
21	"	39th F.A. Bn	
22	"	39th F.A. Bn	

R E C A P I T U L A T I O N

UNIT	IND	VEH
39th F.A. Bn	59	16
SFCP	6	6
TOTAL	65	22

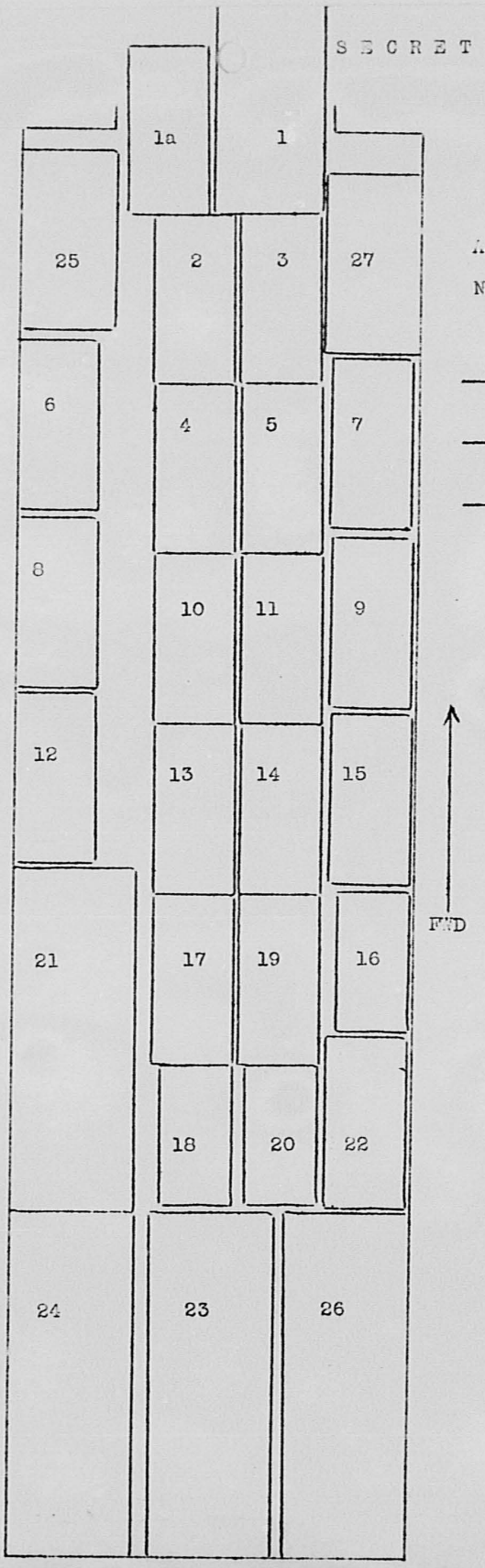
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LCT (4)

ASN. ..33.....

NSN.....

TQM

(NAME)

(RANK)

(ORGN)

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LOADING LIST LCT 33
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W NUMBER
1	3/4 T W/C	3rd Sig Co	
1a	1/4 T C&R	601 TD Bn	
2	3/4 T W/C	Div Hq Co	
3	"	Div Hq Co	
4	"	Div Hq Co	
5	"	Div Hq Co	
6	"	MP Plat	
7	"	MP Plat	
8	"	10th Engr Bn	
9	"	Tr C, 117 Recn	
10	"	3rd Sig Co	
11	"	"	
12	"	"	
13	"	"	
14	"	"	
15	"	"	
16	1/4 T Trl	"	
17	1/4 T C&R	"	
18	1/4 T Trl	"	
19	1/4 T C&R	"	
20	1/4 T Trl	"	
21	2½ T Trk	"	
22	1/4 T C&R	Div Hq Co	
23	2½ T Trk	3rd Sig Co	
24	2½ T Trk	Div Hq Co	
25	1 T Trl	Div Hq Co	
26	2½ T Trk	3rd Tac Sq	
27	1 T Trl	3rd Tac Sq	

R E C A P I T U L A T I O N

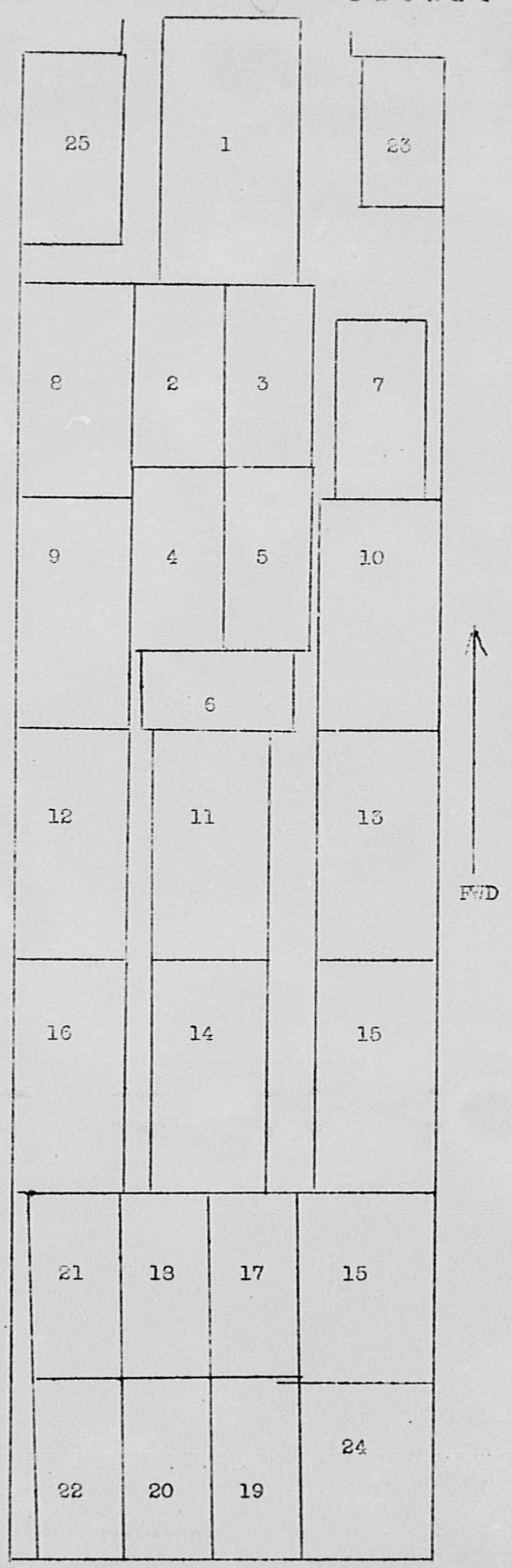
UNIT	IND	VEH
Div Hq Co	10	7
3rd Sig Co	25	14
MP Plat	6	2
3rd Tac Sq	4	2
10th Engr Bn	3	1
Tr C, 117 Recn	3	1
601 TD Bn	1	1
TOTAL	52	28

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LCT (4)

ASN. 34.....

NSN.....

TQH

(NAME)

(RANK)

(ORGN)

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LOADING LIST LCT 34
(In order of priority for Discharge)

PRIORITY	TYPE VEHICLE	UNIT	W Nl
1	M-8 Car	117 Rcn Sq	
2	1/4 T C&R	Div Hq Co	
3	"	Div Hq Co	
4	"	3rd Sig Co	
5	"	"	
6	1/4 T Trl	"	
7	1/4 T C&R	"	
8	3/4 T W/C	"	
9	3/4 T	"	
10	"	"	
11	"	"	
12	"	Div Hq Co	
13	"	MP Platoon	
14	"	Div Hq Co	
15	"	Div Hq Co	
16	"	3rd Tac Sq	
17	1/4 T C&R	Div Hq Co	
18	"	Div Hq Co	
19	"	MP Plat	
20	"	3rd Sig Co	
21	"	MP Plat	
22	"	3rd Sig Co	
23	1/4 T Trl	3rd Sig Co	
24	2½ T Trk	Div Hq Co	
25	1 T Trl	Div Hq Co	

R E C A P I T U L A T I O N

UNIT	IND	VEH
Div Hq Co	14	9
3rd Sig Co	22	11
MP Plat	9	3
3rd Tac Sq	2	1
117 Rcn Sq	4	1
TOTAL	51	25

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S E C R E T

LCT

ASN.....35..

NSN.....

TQM

_____
(Name)

_____
(Rank)

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(Organization)

QUARTERMASTER:

Item	Amount	Unit
Rations, Type C	4,000	ea
Rations, Type K	5,000	ea.
Gasoline, V-80	500	gal.
Water	300	can.

MEDICAL:

Assorted Medical Dressings, drugs, plasma, splint sets, etc.	3 tons.	

ORDNANCE:

Description	No of Pkgs	Type Pkg.	Rds Pkg	Total Rds
105, M2, Shell, HE, M1 w/PDF M48				1421
105, M2, Shell, HE, w/PDF 54				474
105, M2, Shell, Smoke WP				108
105, M2, Shell, Smoke HC				87
105, M2, Shell, Smoke Colored				21
105, M2, Shell, HE AT				42
90 Gun, Shell, HE w/PDF M43	43	Box	4	172
90 Gun, Shell, HE w/PDF M48	5	Box	4	20
90 Gun, Shot, AP	3	Box	4	12
155 How, M1 Shell, HE	540	Proj	1	540
155 How, M1 Shell, Smoke WP	30	Proj	1	30
155 How, M1 Shell, Smoke HC	30	Proj	1	30
Charge, Prop, GB, M3	20	Clover	6	120
Charge, Prop, WB, M4	160	Clover	3	480
Primers, Perc, Mk 11A1	18	Tin	50	900
Fuze, PD M51A1	29	Box	25	725
Fuze, TM M67	6	Box	25	125
155 Gun, Shell, HE	162	Proj	162	162
155 Gun, Shell, Smoke WP	9	Proj	9	9
155 Gun, Shell, Smoke HC	9	Proj	9	9
Charge, Prop, B&I for 155 Gun M1	60	Clover	3	180

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S E C R E T

LCT

ASN.....36.

NSN.....

TQM

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(Name)

_____
(Rank)

_____
(Organization)

QUARTERMASTER:

Item	Amount	Unit
Rations, Type C	4,000	ea.
Rations, Type K	5,000	ea.
Gasoline, V-80	500	gal.
Diesel Fuel	3,000	gal.
Water	300	can.

ORDNANCE:

Description	No of Pkgs.	Type Pkg	Rds Pkg	Total Rds
105, M2, Shell, HE, M1 w/PDF M48			—	1421
105, M2, Shell, HE, M1 w/PDF 54				474
105, M2, Shell, Smoke WP				108
105, M2, Shell, Smoke HC				87
105, M2, Shell, Smoke Colored				21
105, M2, Shell, HE AT				42
90 Gun, Shell, HE w/PDF M43	43	Box	4	172
90 Gun, Shell, HE w/PDF M48	5	Box	4	20
90 Gun, Shot, AP	3	Box	4	12
155 How, M1 Shell, HE	540	Proj	1	540
155 How, M1 Shell, Smoke WP	30	Proj	1	30
155 How, M1 Shell, Smoke HC	30	Proj	1	30
Charge, Prop, GB, M3	20	Clover	6	120
Charge, Prop, WB, M4	160	Clover	3	480
Primers, Perc, Mk 11A1	18	Tin	50	900
Fuze, PD M51A1	29	Box	25	725
Fuze, TM M67	6	Box	25	125
155 Gun, Shell, HE	162	Proj	162	162
155 Gun, Shell, Smoke WP	9	Proj	9	9
155 Gun, Shell, Smoke HC	9	Proj	9	9
Charge, Prop, B&I for 155 Gun M1	60	Clover	3	180

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S E C R E T

LCT

ASN.....37.....

NSN.....

TQM

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(Name)

_____
(Rank)

_____
(Organization)

QUARTERMASTER:

Item	Amount	Unit
Rations, Type C	4,000	ea.
Rations, Type K	5,000	ea.
Gasoline, V-80	500	gal.
Water	300	can.

SIGNAL:

Stock No.	Item	Unit	No.
1B110-B	Wire, W-110 on DR 4	Reel	43 mi
1B110-B	Wire, W-110 on DR 5	Reel	35 mi
1B130	Wire, W-130 on DR 8 or Commercial Reels	Reel	25 mi
3A2	Batteries, BA-2	ea.	50
3A23	Batteries, BA-23	ea.	18
3A27	Batteries, BA-27	ea.	25
3A30	Batteries, BA-30	ea.	1000
3A37	Batteries, BA-37	ea.	150
3A38	Batteries, BA-38	ea.	225
3A39	Batteries, BA-39	ea.	36
3A40	Batteries, BA-40	ea.	60
3A41	Batteries, BA-41	ea.	25
3A43	Batteries, BA-43	ea.	41
3A70	Batteries, BA-70	ea.	100

ORDNANCE:

Description	No of Pkgs.	Type Pkg.	Rds Pkg.	Total Rds
105, M2, Shell, HE, M1 w/PDF M48				1421
105, M2, Shell, HE, M1 w/PDF 54				474
105, M2, Shell, Smoke WP				108
105, M2, Shell, Smoke HC				87
105, M2, Shell, Smoke Colored				21
105, M2, Shell, HE AT				42
90 Gun, Shell, HE w/PDF M43	43	Box	4	172
90 Gun, Shell, HE w/PDF M48	5	Box	4	20
90 Gun, Shot AP	3	Box	4	12
155 How, M1 Shell, HE	540	Proj	1	540
155 How, M1 Shell, Smoke WP	30	Proj	1	30
155 How, M1 Shell, Smoke HC	30	Proj	1	30
Charge, Prop, GB, M3	20	Clover	6	120
Charge, Prop, WB, M4	160	Clover	3	480
Primers, Perc, Mk 11A1	18	Tin	50	900
Fuze, PD M51A1	29	Box	25	725
Fuze, TM M67	6	Box	25	125
155 Gun Shell HE	162	Proj	162	162
155 Gun Shell Smoke WP	9	Proj	9	9
155 Gun Shell Smoke HC	9	Proj	9	9
Charge, Prop, B&I for 155 Gun M1	60	Clover	3	180

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LCT

ASN.....38.....

NSN.....

TQM

_____
(Name)

_____
(Rank)

_____
(Organization)

QUARTERMASTER:

Item	Amount	Unit
Rations, Type C	4,000	ea.
Rations, Type K	5,000	ea.
Gasoline, V-80	500	gal.
Water	300	can.

SIGNAL:

Stock No	Item	Unit	No.
1B110-B	Wire, W-110 on DR-4	Reel	42 mi
1B110-B	Wire, W-110 on DR-5	Reel	35 mi
1B130	Wire, W-130 on DR-8 or Commercial Reels	Reel	25 mi
3A2	Batteries, BA-2	ea	50
3A23	Batteries, BA-23	ea	18
3A27	Batteries, BA-27	ea	25
3A30	Batteries, BA-30	ea	1000
3A37	Batteries, BA-37	ea	150
3A38	Batteries, BA-38	ea	225
3A39	Batteries, BA-39	ea	36
3A40	Batteries, BA-40	ea	60
3A41	Batteries, BA-41	ea	25
3A43	Batteries, BA-43	ea	40
3A70	Batteries, BA-70	ea	100

ORDNANCE:

Description	No of Pkgs.	Type Pkg.	Rds Pkg	Total Rds
105, M2, Shell, HE, M1 w/PDF M48				1421
105, M2, Shell, HE, M1 w/PDF 54				474
105, M2, Shell, Smoke, WP				108
105, M2, Shell, Smoke, HE				87
105, M2, Shell, Smoke Colored				21
105, M2, Shell, HE AT				42
90mm Gun, Shell, HE w/PDF M43	43	Box	4	172
90mm Gun, Shell, HE w/PDF M48	5	Box	4	20
90mm Gun, Shot, AP	3	Box	4	12
155 How, M1 Shell, HE	540	Proj	1	540
155 How, M1, Shell, Smoke WP	30	Proj	1	30
155 How, M1 Shell, Smoke HC	30	Proj	1	30
Charge, Prop, GB, M3	20	Clover	6	120
Charge, Prop, WB, M4	160	Clover	3	480
Primers, Perc, Mk 11A1	18	Tin	50	900
Fuze, PD M51A1	29	Box	25	725
Fuze, TM M67	6	Box	25	125
155 Gun, Shell, HE	162	Proj	162	162
155 Gun, Shell, Smoke WP	9	Proj	9	9
155 Gun, Shell, Smoke HC	9	Proj	9	9
Charge, Prop, B&I for 155 Gun, M1	60	Clover	3	180

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S E C R E T

LCT

ASN.....39...

NSN.....

TQM

_____
(Name)

_____
(Rank)

_____
(Organization)

QUARTERMASTER:

Item	Amount	Unit
Rations, Type C	4,000	ea.
Rations, Type K	5,000	ea.
Water	300	can.
Gasoline, V-80	750	gal.
Diesel Fuel	500	gal.

MEDICAL:

Assorted Medical Dressings, Drugs, Plasma, splint sets, etc.	3 tons.

ORDNANCE:

Description	No of Pkgs	Type Pkg.	Rds Pkg	Total Rds
37 Gun, Auto, Shell, HE	29	Box	25	775
37 Gun, Auto, Shot, APC	3	Box	25	75
40 AA Gun, Shell, HE	34	Box	24	816
40 AA Gun, Shot, APC	4	Box	24	96
57 AT Gun, Shot, APC	133	Clover	3	399
75 How, Shell, HE, w/PDF M48	64	Clover	3	192
75 How, Shell, HE, w/PDF M54	16	Clover	3	48
75 How, Shell, Smoke WP	8	Clover	3	24
75 How, Shell, HE AT	2	Clover	3	6
75 Gun, Shell, HE w/PDF M48	106	Clover	3	324
75 Gun, Shell, HE w/PDF M54	12	Clover	3	36
75 Gun, Shell, Smoke WP	20	Clover	3	60
75 Gun, Shot APC	60	Clover	3	180
3" Gun, Shell, HE	52	Box	4	208
3" Gun, Shot, APC	23	Box	4	92
105, How, M2, Shell, HE w/PDF M48				1188
105, How, M2, Shell, HE w/PDF M54				396
105, How, M2, Shell, Smoke WP				90
105, How, M2, Shell, Smoke HC				72
105, How, M2, Shell, Smoke Colored				18
105, How, M2, Shell, HE AT				36
60mm Mortar, Shell, HE	81	Clover	18	1458
60mm Mortar, Shell, Illuminating	3	Clover	18	54
81mm Mortar, Shell, HE LT	263	Clover	6	1578
81mm Mortar, Shell, HE HV	105	Clover	3	315
81mm Mortar, Shell, Smoke WP	70	Clover	3	210
4.2" Mortar, Shell, HE	210	Box	2	420
4.2" Mortar, Shell, Smoke WP	140	Box	2	280
Cal..30, AP-TR Steel Chests	13	Crate	4000	50000
Cal..50, AP-Inc-Tr 2-2-1	38	Box	265	10070
Cal..45, Ball	5	Box	2000	10000
Cal..30, AP 8/clip	30	Box	1344	40320
Cal..30, AP 5/clip	25	Box	1200	30000
Cal..30, Carbine	5	Box	3000	15000
Grenade, AT, M9A1	115	Box	10	1150
Rocket, HE AT M6A1 or M6A2	15	Box	20	300

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RECAPITULATION

UNIT	IND.	VEH.
36th Engrs	21	25
1st Naval Beach Bn	49	3
72nd Sig Co	7	7
52nd Med Bn	74	16
815th MP Co	4	3
69th Ord.	3	2
530th QM Sv Bn	3	1
534th AAA Bn	41	5
10th Field Hospital	25	4
43rd Ord. Bn Hqs	6	3
756th Tank Bn	10	2
Air Force Detail	12	
7th Inf	144	
177th Sig	10	
TOTAL	450	71

LST

ASN....201....

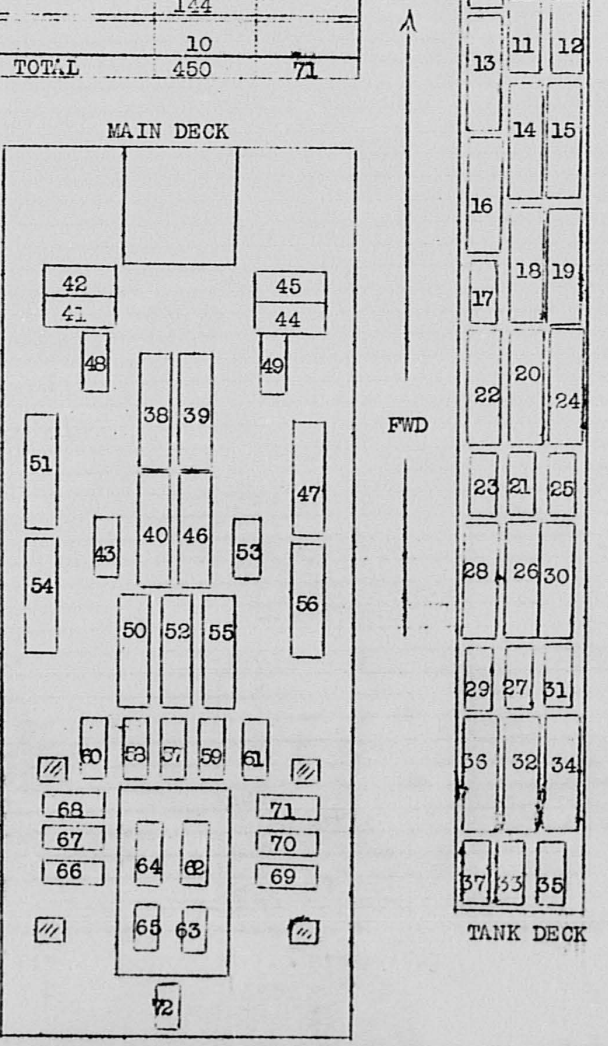
NSN.....

T&M

(Name)

(Rank)

(Organization)



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LOAD LIST 201

(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton	36th Engineer	
2	D7 Angledozer	" "	
3	1/4-ton C&R	" "	
4	3/4-ton	534th AAA Bn	
5	Tank (M)	756th Tank Bn	
6	T-2 Recovery	" "	
7	D7 Angledozer	36th Engineer	
8	D7 Angledozer	" "	
9	D7 Angledozer	" "	
10	2½-ton	" "	
11	Ambulance	52nd Med Bn	
12	Ambulance	" "	
13	2½-ton	36th Engineer	
14	2½-ton	1st Naval Beach Bn	
15	2½-ton	815th MP Co	
16	2½-ton	36th Engineer	
17	1-ton Trailer	" "	
18	2½-ton	72nd Sig Co	
19	2½-ton	52nd Med Bn	
20	2½-ton	36th Engineer	
21	1-ton Trailer	" "	
22	2½-ton	" "	
23	1-ton Trailer	" "	
24	2½-ton	" "	
25	1-ton Trailer	" "	
26	2½-ton	" "	
27	1-ton Trailer	" "	
28	2½-ton	72nd Sig Co	
29	1-ton Trailer	" "	
30	2½-ton	52nd Med Bn	
31	1-ton Trailer	" "	
32	2½-ton	" "	
33	1-ton Trailer	" "	
34	2½-ton	36th Engineer	
35	1-ton Trailer	" "	
36	2½-ton	10th Field Hosp	
37	1-ton Trailer	" "	
38	2½-ton	" "	
39	2½-ton	530th QM Sv Bn	
40	2½-ton	69th Ord Co	
41	3/4-ton	72nd Sig Co	
42	3/4-ton	52nd Med Bn	
43	1-ton Trailer	52nd Med Bn	
44	3/4-ton	10th Field Hosp.	
45	Ambulance	52nd Med Bn	
46	2½-ton	534th AAA Bn	
47	40mm AA	" "	
48	1/4-ton C&R	1st Naval Beach Bn	
49	1/4-ton C&R	" " "	
50	2½-ton	534th AAA Bn	
51	40mm AA	534th AAA Bn	
52	2½-ton	52nd Med Bn	
53	1-ton Trailer	52nd Med Bn	
54	Ambulance	52nd Med Bn	
55	Ambulance	52nd Med Bn	
56	Ambulance	52nd Med Bn	
57	1/4-ton C&R	815th MP Co	
58	1/4-ton C&R	" "	
59	1/4-ton C&R	36th Engr	
60	1/4-ton C&R	" "	
61	1/4-ton C&R	" "	
62	1/4-ton C&R	" "	
63	1/4-ton Trailer	" "	
64	1/4-ton C&R	72nd Sig Co	

(Continued on page 2)

1601

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LOAD GROUP - 1ST 201

(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton	36th Engineer	
2	D7 Angledozer	" "	
3	1/4-ton C&R	" "	
4	3/4-ton	534th AAA Bn	
5	Tank (M)	756th Tank Bn	
6	T-2 Recovery	" "	
7	D7 Angledozer	36th Engineer	
8	D7 Angledozer	" "	
9	D7 Angledozer	" "	
10	2½-ton	" "	
11	Ambulance	52nd Med Bn	
12	Ambulance	" "	
13	2½-ton	36th Engineer	
14	2½-ton	1st Naval Beach Bn	
15	2½-ton	815th MP Co	
16	2½-ton	36th Engineer	
17	1-ton Trailer	" "	
18	2½-ton	72nd Sig Co	
19	2½-ton	52nd Med Bn	
20	2½-ton	36th Engineer	
21	1-ton Trailer	" "	
22	2½-ton	" "	
23	1-ton Trailer	" "	
24	2½-ton	" "	
25	1-ton Trailer	" "	
26	2½-ton	" "	
27	1-ton Trailer	" "	
28	2½-ton	72nd Sig Co	
29	1-ton Trailer	" "	
30	2½-ton	52nd Med Bn	
31	1-ton Trailer	" "	
32	2½-ton	" "	
33	1-ton Trailer	" "	
34	2½-ton	36th Engineer	
35	1-ton Trailer	" "	
36	2½-ton	10th Field Hosp	
37	1-ton Trailer	" "	
38	2½-ton	" "	
39	2½-ton	530th QM Sv Bn	
40	2½-ton	69th Ord Co	
41	3/4-ton	72nd Sig Co	
42	3/4-ton	52nd Med Bn	
43	1-ton Trailer	52nd Med Bn	
44	3/4-ton	10th Field Hosp.	
45	Ambulance	52nd Med Bn	
46	2½-ton	534th AAA Bn	
47	40mm AA	" "	
48	1/4-ton C&R	1st Naval Beach Bn	
49	1/4-ton C&R	" " "	
50	2½-ton	534th AAA Bn	
51	40mm AA	534th AAA Bn	
52	2½-ton	52nd Med Bn	
53	1-ton Trailer	52nd Med Bn	
54	Ambulance	52nd Med Bn	
55	Ambulance	52nd Med Bn	
56	Ambulance	52nd Med Bn	
57	1/4-ton C&R	815th MP Co	
58	1/4-ton C&R	" "	
59	1/4-ton C&R	36th Engr	
60	1/4-ton C&R	" "	
61	1/4-ton C&R	" "	
62	1/4-ton C&R	" "	
63	1/4-ton Trailer	" "	
64	1/4-ton C&R	72nd Sig Co	

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1002

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LOADING LIST - LST 201 (con't from page one)
(In order of priority for discharge)

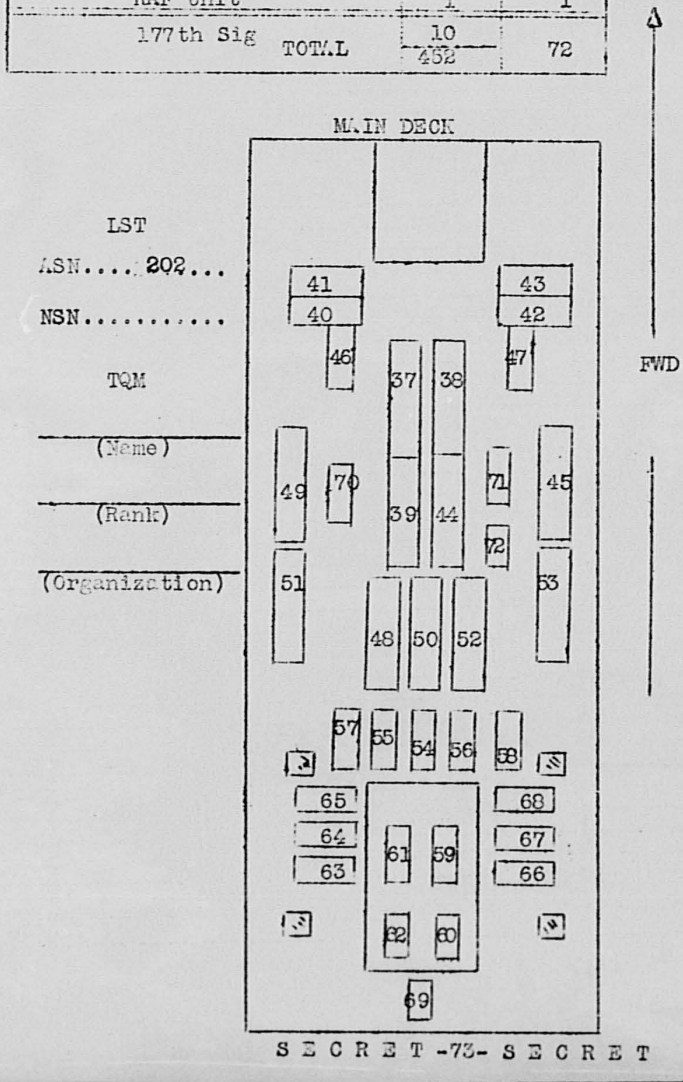
PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
65	1/4-ton Trailer	72nd Sig Co	
66	1/4-ton C&R	" "	
67	1/4-ton C&R	43rd Ord Hqs	
68	1/4-ton C&R	52nd Med Bn	
69	1/4-ton C&R	69th Ord Co	
70	1/4-ton C&R	534th AAA Bn	
71	1/4-ton C&R	43rd Ord Hqs	
72	1/4-ton Trailer	43rd Ord Hqs	

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R E C A P I T U L A T I O N		
U N I T	IND.	VEH.
36th Engineers	36	27
1st Naval Beach Bn	75	3
72nd Signal Co	11	10
52nd Medical Bn	11	13
815th MP Co	4	3
377 PW Esct Gd	2	1
530 QM Sv Bn	2	1
93 QM Rhd	1	1
534th AAA Bn	35	5
10th Field Hosp.	25	4
36th F.A. Bn.	15	1
Air Force Detail	12	2
RAF Unit	1	1
177th Sig	10	
TOTAL	452	72



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1604

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SECRET

(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	36th Engineer	
2	D7 Angledozer	" "	
3	1/4-ton C&R	" "	
4	D7 Angledozer	" "	
5	D7 Angledozer	" "	
6	D7 Angledozer	" "	
7	D7 Angledozer	" "	
8	D7 Angledozer	" "	
9	2½-ton	" "	
10	Ambulance	52nd Medical Bn	
11	Ambulance	" "	
12	2½-ton	36th Engineer	
13	2½-ton	1st Navy Beach Bn	
14	2½-ton	815th MP Co	
15	2½-ton	36th Engineer	
16	1-ton Trailer	36th Engineer	
17	2½-ton	72nd Sig Co	
18	2½-ton	52nd Med Bn	
19	2½-ton	36th Engineer	
20	1-ton Trailer	36th Engineer	
21	2½-ton	" "	
22	1-ton Trailer	" "	
23	2½-ton	" "	
24	1-ton Trailer	" "	
25	2½-ton	" "	
26	1-ton Trailer	" "	
27	2½-ton	72nd Signal Co	
28	1-ton Trailer	" "	
29	2½-ton	52nd Med Bn	
30	1-ton Trailer	" "	
31	2½-ton	" "	
32	1-ton Trailer	" "	
33	2½-ton	36th Engineer	
34	1-ton Trailer	" "	
35	2½-ton	10th Field Hosp.	
36	1-ton Trailer	" " "	
37	2½-ton	" " "	
38	2½-ton	530th QM Sv Bn	
39	2½-ton	377 PE Engt Gd	
40	3/4-ton	72nd Signal Co	
41	3/4-ton	" "	
42	1/4-ton C&R	93rd QM Co	
43	Ambulance	52nd Med Bn.	
44	2½-ton	534th AAA Bn	
45	40mm AA	" "	
46	1/4-ton C&R	1st Naval Beach Bn	
47	1/4-ton C&R	1st Naval Beach Bn	
48	2½-ton	534th AAA Bn	
49	40mm AA	" "	
50	2½-ton	36th F/ Bn	
51	Ambulance	52nd Med Bn.	
52	Ambulance	" "	
53	Ambulance	" "	
54	1/4-ton C&R	815th MP Co	
55	1/4-ton C&R	" "	
56	1/4-ton C&R	36th Engineer	
57	1/4-ton C&R	" "	
58	1/4-ton C&R	" "	
59	1/4-ton C&R	" "	
60	1/4-ton Trailer	" "	
61	1/4-ton C&R	72nd Sig Co	
62	1/4-ton Trailer	" "	
63	1/4-ton C&R	" "	
64	1/4-ton C&R	10th Field Hosp.	
65	1/4-tonC&R	52nd Med Bn	

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1605

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LOADING LIST - LST 202 (Cont'd from page one)
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
66	1/4-ton C&R	52nd Med Bn	
67	1/4-ton C&R	534th AAA Bn	
68	1/4-ton C&R	72nd Signal Co	
69	1/4-ton Trailer	" "	
70	1/4-ton C&R	R.A.F. Unit	
71	1/4-ton C&R	Air Force Unit	
72	1/4-ton Trailer	" " "	

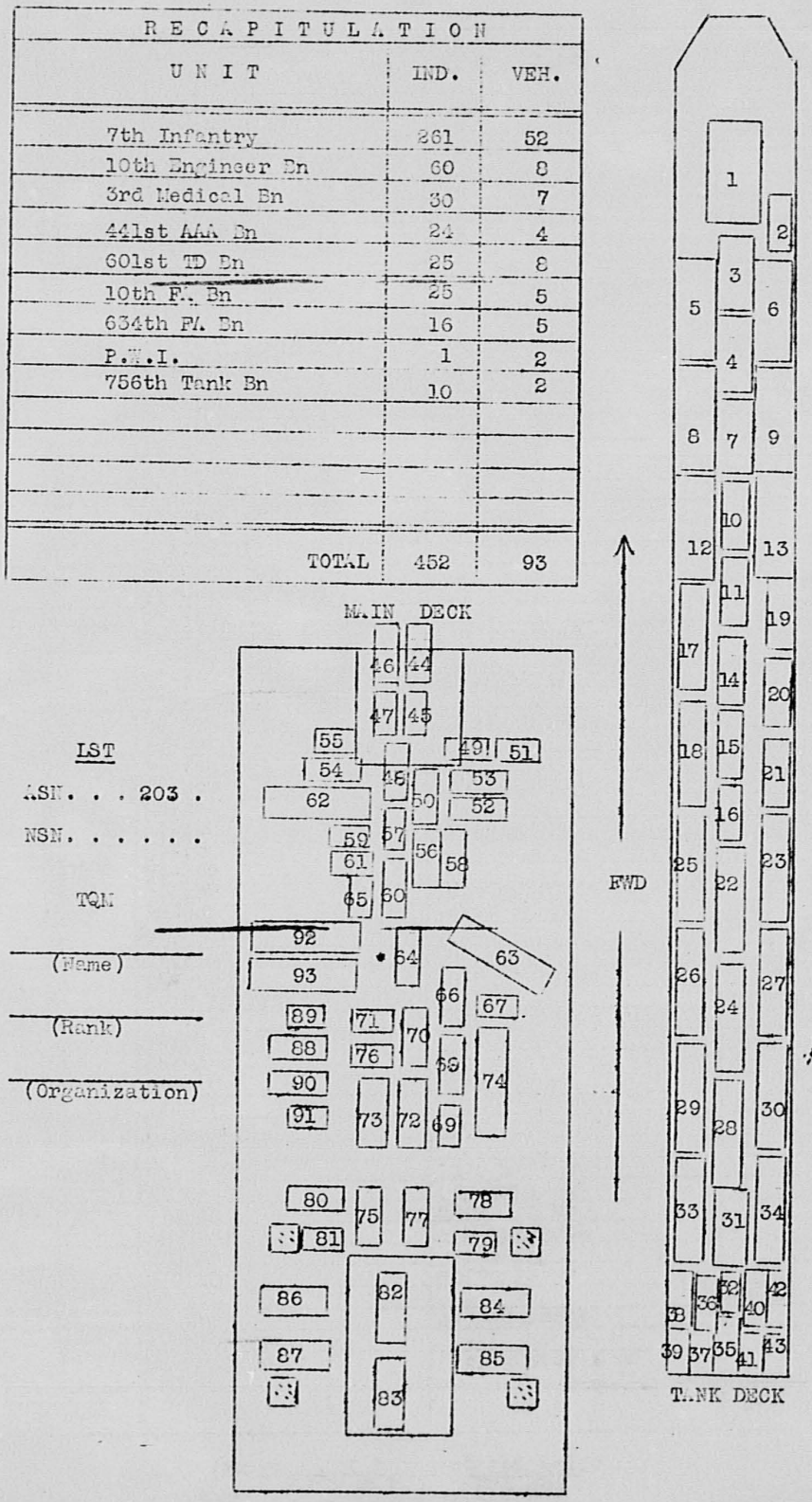
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1800

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RECAPITULATION		
UNIT	IND.	VEH.
7th Infantry	861	52
10th Engineer Bn	60	8
3rd Medical Bn	30	7
441st AAA Bn	24	4
601st TD Bn	25	8
10th F.A. Bn	25	5
634th F.A. Bn	16	5
P.W.I.	1	2
756th Tank Bn	10	2
TOTAL	452	93



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S E C R E T

LOADING LIST - LST 203

(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	D7 Angledozer	10th Engineer Bn	
2	1/4-ton C&R	7th Infantry	
3	M8 How	" "	
4	M8 How	601st TD Bn	
5	M10 TD	" "	
6	M10 TD	7th Infantry	
7	M8 How	601st TD Bn	
8	M10 TD	7th Infantry	
9	M7 How	10th F.A. Bn.	
10	3/4-ton	" "	
11	3/4-ton	756th Tank Bn	
12	Tank (M)	" "	
13	Tank (M)	634th F.A. Bn	
14	3/4-ton	3rd Medical Bn	
15	3/4-ton	" "	
16	1-ton Trailer	10th Engineer Bn	
17	2½-ton	" "	
18	Pole Trailer	10th F.A. Bn.	
19	3/4-ton	" "	
20	3/4-ton	" "	
21	3/4-ton	601st TD Bn	
22	2½-ton	10th Engineer Bn	
23	2½-ton	" "	
24	2½-ton	" "	
25	2½-ton	634th F.A. Bn	
26	2½-ton	" "	
27	2½-ton	7th Infantry	
28	2½-ton	" "	
29	2½-ton	" "	
30	2½-ton	601st TD Bn	
31	M8 Car	" "	
32	1/4-ton Trailer	634th F.A. Bn	
33	2½-ton	" "	
34	2½-ton	7th Infantry	
35	1/4-ton C&R	" "	
36	1/4-ton C&R	" "	
37	1/4-ton Trailer	" "	
38	1/4-ton C&R	" "	
39	1/4-ton Trailer	" "	
40	1/4-ton C&R	" "	
41	1/4-ton Trailer	" "	
42	1/4-ton C&R	" "	
43	1/4-ton Trailer	" "	
44	1/4-ton C&R	" "	
45	1/4-ton Trailer	" "	
46	1/4-ton C&R	" "	
47	1/4-ton Trailer	" "	
48	1/4-ton C&R	" "	
49	1/4-ton Trailer	" "	
50	1/4-ton C&R	" "	
51	1/4-ton Trailer	" "	
52	1/4-ton C&R	" "	
53	1/4-ton C&R	" "	
54	1/4-ton C&R	" "	
55	1/4-ton Trailer	" "	
56	1/4-ton C&R	" "	
57	1/4-ton Trailer	" "	
58	1/4-ton C&R	" "	
59	1/4-ton Trailer	" "	
60	1/4-ton C&R	601st TD Bn	
61	1/4-ton Trailer	441st AAA Bn	
62	AAA	" "	
63	AAA	" "	

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LOADING LIST - LST 203 (cont'd from page one)
(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE.	UNIT	W-NUMBER
64	1/4-ton C&R	7th Infantry	
65	1/4-ton Trailer	" "	
66	1/4-ton C&R	" "	
67	1/4-ton Trailer	" "	
68	1/4-ton C&R	" "	
69	1/4-ton Trailer	" "	
70	1/4-ton C&R	" "	
71	1/4-ton Trailer	" "	
72	3/4-ton	" "	
73	3/4-ton	" "	
74	2½-ton	10th Engineer	
75	1/4-ton C&R	7th Infantry	
76	1/4-ton Trailer	" "	
77	1/4-ton C&R	3rd Medical Bn	
78	1/4-ton C&R	7th Infantry	
79	1/4-ton Trailer	" "	
80	1/4-ton C&R	P.W.I.	
81	1/4-ton Trailer	P.W.I.	
82	3/4-ton	3rd Medical Bn	
83	Ambulance	" "	
84	Ambulance	" "	
85	Ambulance	" "	
86	3/4-ton	7th Infantry	
87	3/4-ton	" "	
88	1/4-ton C&R	" "	
89	1/4-ton Trailer	" "	
90	1/4-ton C&R	" "	
91	1/4-ton Trailer	" "	
92	AAA	441st AAA Bn	
93	AAA	441st AAA Bn	

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RECAPITULATION

UNIT	IND	VEH
7th Infantry	288	58
10th Engr Bn	60	9
3rd Medical Bn	30	5
441st AAA Bn	33	6
601st TD Bn	25	8
756th Tank Bn	15	3
TOTAL	451	89

LST

ASN.....204....

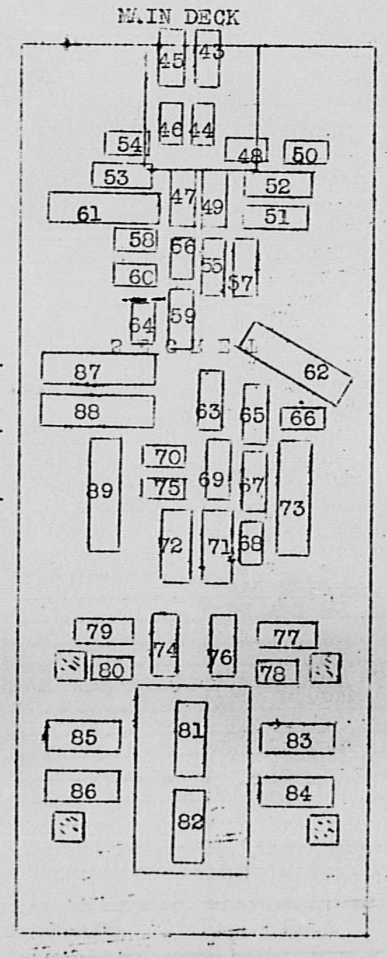
NSN.....

T&M

(Name)

(Rank)

(Organization)



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LOADING LIST - LST 204
(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	2½-ton	10th Engineer	
2	1/4-ton C&R	7th Infantry	
3	M8 How	" "	
4	M7 How	" "	
5	M10 TD	601st TD Bn	
6	M8 How	7th Infantry	
7	M10 TD	601st TD Bn	
8	M10 TD	" "	
9	M8 How	7th Infantry	
10	Tank (M)	756th Tank Bn	
11	Tank (M)	" "	
12	Tank (M)	" "	
13	3/4-ton	3rd Med Bn	
14	2½-ton	10th Engr Bn	
15	Pole Trailer	" "	
16	7½-ton	" "	
17	Pole Trailer	" "	
18	2½-ton	" "	
19	2½-ton	7th Infantry	
20	2½-ton	" "	
21	2½-ton	" "	
22	2½-ton	601st TD Bn	
23	1½-ton w/57mm	7th Infantry	
24	1½-ton	" "	
25	1½-ton	" "	
26	1½-ton	" "	
27	1½-ton	" "	
28	1½-ton	" "	
29	1½-ton	" "	
30	Halftrack	601st TD Bn	
31	1/4-ton Trailer	" "	
32	1½-ton w/57mm	7th Infantry	
33	1½-ton	" "	
34	1/4-ton C&R	" "	
35	1/4-ton C&R	" "	
36	1/4-ton Trailer	" "	
37	1/4-ton C&R	" "	
38	1/4-ton Trailer	" "	
39	1/4-ton C&R	601st TD Bn	
40	1/4-ton Trailer	" "	
41	1/4-ton C&R	7th Infantry	
42	1/4-ton Trailer	" "	
43	1/4-ton C&R	" "	
44	1/4-ton Trailer	" "	
45	1/4-ton C&R	" "	
46	1/4-ton Trailer	" "	
47	1/4-ton C&R	" "	
48	1/4-ton Trailer	" "	
49	1/4-ton C&R	" "	
50	1/4-ton Trailer	" "	
51	1/4-ton C&R	10th Engineer	
52	1/4-ton C&R	441st AAA Bn	
53	1/4-ton C&R	7th Infantry	
54	1/4-ton Trailer	" "	
55	1/4-ton C&R	" "	
56	1/4-ton Trailer	" "	
57	1/4-ton C&R	" "	
58	1/4-ton Trailer	" "	
59	1/4-ton C&R	" "	
60	1/4-ton Trailer	" "	
61	AAA	441st AAA Bn	
62	AAA	" "	

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LOADING LIST - LST 204 (Cont'd from page one)
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
63	1/4-ton C&R	7th Infantry	
64	1/4-ton Trailer	" "	
65	1/4-ton C&R	" "	
66	1/4-ton Trailer	" "	
67	1/4-ton C&R	" "	
68	1/4-ton Trailer	" "	
69	1/4-ton C&R	" "	
70	1/4-ton Trailer	" "	
71	3/4-ton	" "	
72	3/4-ton	" "	
73	2½-ton	10th Engineer	
74	1/4-ton C&R	7th Infantry	
75	1/4-ton Trailer	" "	
76	1/4-ton C&R	3rd Medical Bn	
77	1/4-ton C&R	7th Infantry	
78	1/4-ton Trailer	" "	
79	1/4-ton C&R	" "	
80	1/4-ton Trailer	" "	
81	3/4-ton	10th Engineer	
82	Ambulance	3rd Medical Bn	
83	Ambulance	" "	
84	Ambulance	" "	
85	3/4-ton	7th Infantry	
86	3/4-ton	" "	
87	AAA	441st AAA Bn	
88	AAA	" "	
89	AAA	" "	

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1012

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RECAPITULATION		
UNIT	IND	VEH
10th FA Bn	162	32
601st TD Bn	22	5
72nd AAA Bn	80	18
634th FA Bn	6	1
441st AAA Bn	6	1
69th FA Bn	4	1
7th Inf	170	
TOTAL	450	58

MAIN DECK

LST

ASN.....205....

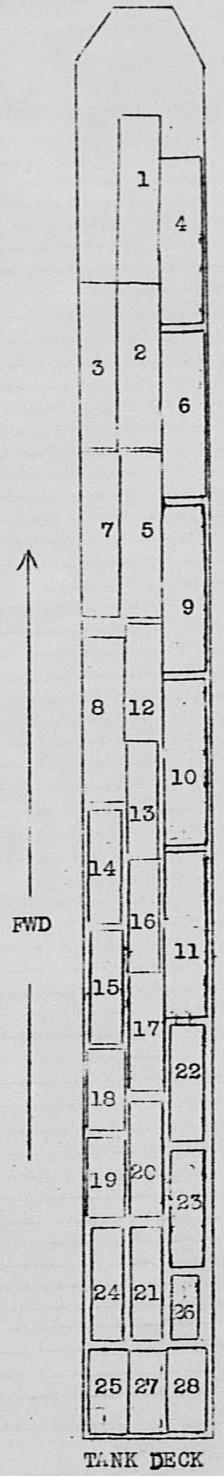
NSN.....

TQM

(Name)

(Rank)

(Organization)



TANK DECK

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-82-

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LOADING LIST - LST 205
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW w/105mm How	10th F.A. Bn.	
2	DUKW w/105mm How	" "	
3	DUKW w/105mm How	" "	
4	DUKW w/105mm How	" "	
5	DUKW w/105mm How	" "	
6	DUKW w/105mm How	" "	
7	DUKW	" "	
8	DUKW	" "	
9	DUKW	" "	
10	DUKW	" "	
11	DUKW	" "	
12	7½-ton P/M	72nd AAA Bn	
13	90mm AA	" "	
14	2½-ton	" "	
15	Van Trailer	" "	
16	7½-ton P/M	" "	
17	90mm AA	" "	
18	Halftrack	601st TD Bn	
19	Halftrack	" "	
20	7½-ton P/M	72nd AAA Bn	
21	90mm AA	" "	
22	7½-ton P/M	" "	
23	90mm AA	" "	
24	2½-ton	" "	
25	Power Trailer	" "	
26	1/4-ton C&R	69th F.A. Bn.	
27	M8 Car	601st T.D. Bn.	
28	M8 Car	" "	
29	1/4-ton C&R	10th FA Bn	
30	1/4-ton C&R	" "	
31	3/4-ton	" "	
32	3/4-ton	" "	
33	2½-ton	72nd AAA Bn	
34	Van Trailer	" "	
35	2½-ton	10th FA Bn	
36	1/4-ton C&R	" "	
37	1/4-ton Trailer	" "	
38	1/4-ton C&R	601st TD Bn	
39	1/4-ton C&R	72nd AAA Bn	
40	3/4-ton	10th FA Bn	
41	3/4-ton	634th FA Bn	
42	2½-ton	72nd AAA Bn	
43	Power Trailer	" "	
44	3/4-ton	10th FA Bn	
45	2½-ton	" "	
46	1-ton Trailer	" "	
47	2½-ton	" "	
48	3/4-ton C/A	72nd AAA Bn	
49	3/4-ton	10th FA Bn	
50	2½-ton	" "	
51	2½-ton	" "	
52	1/4-ton C&R	" "	
53	1/4-ton C&R	" "	
54	2½-ton	" "	
55	2½-ton	" "	
56	1-ton Trailer	" "	
57	2½-ton	" "	
58	3/4-ton	441st AAA Bn	

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RECAPITULATION

UNIT	IND.	VEH.
10th F.A. Bn.	168	40
601st TD Bn	2	2
534th AAA Bn	18	2
72nd AAA Bn	80	17
441st AAA Bn	12	2
7th Infantry	170	
TOTAL	450	63

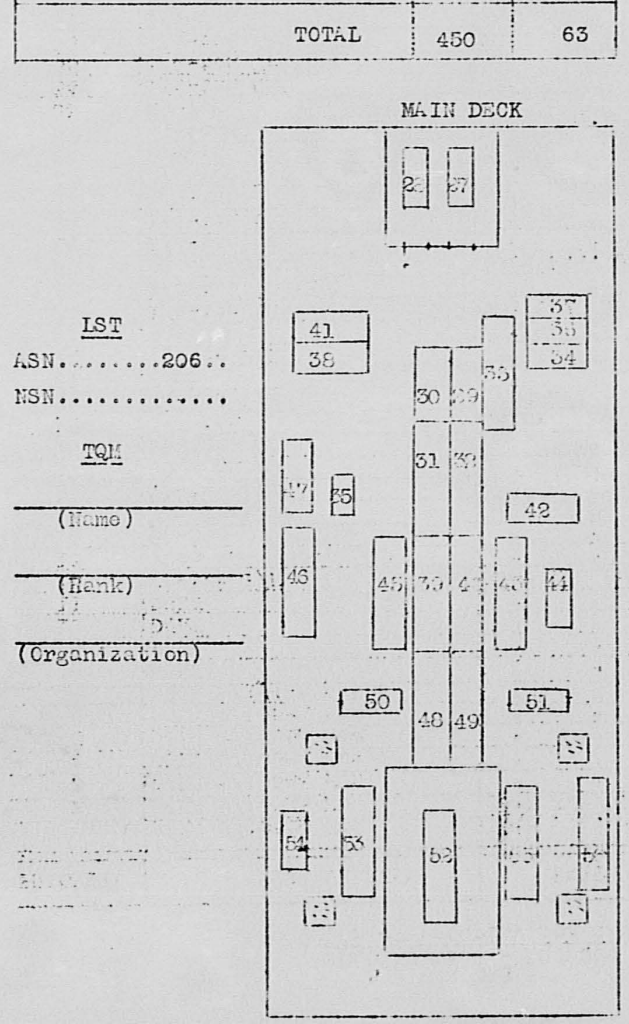
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LOADING LIST - LST 206
(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW w/105mm How	10th F.A. Bn	
2	DUKW w/105mm How	10th F.A. Bn.	
3	DUKW w/105mm How	" "	
4	DUKW w/105mm How	" "	
5	DUKW w/105mm How	" "	
6	DUKW w/105mm How	" "	
7	DUKW w/1/4-ton C&R	" "	
8	DUKW	" "	
9	DUKW	" "	
10	DUKW	" "	
11	DUKW	" "	
12	7½-ton P/M	72nd AAA Bn	
13	90mm AA	" "	
14	2½-ton	" "	
15	Van Trailer	" "	
16	7½-ton P/M	" "	
17	90mm AA	" "	
18	2½-ton	" "	
19	3/4-ton	441st AAA Bn	
20	7½-ton P/M	72nd AAA Bn	
21	90mm	" "	
22	7½-ton P/M	" "	
23	90mm	" "	
24	1/4-ton C&R	601st TD Bn	
25	1/4-ton Trailer	" "	
26	D4 Angledozer	10th F.A. Bn.	
27	1/4-ton C&R	" "	
28	1/4-ton C&R	" "	
29	3/4-ton	" "	
30	3/4-ton	" "	
31	2½-ton	72nd AAA Bn	
32	2½-ton	10th F.A. Bn.	
33	2½-ton	" "	
34	1/4-ton C&R	" "	
35	1/4-ton Trailer	" "	
36	1/4-ton C&R	72nd AAA Bn	
37	1/4-ton C&R	" "	
38	3/4-ton	10th F.A. Bn	
39	2½-ton	" "	
40	2½-ton	72nd AAA Bn	
41	Power Trailer	" "	
42	3/4-ton	10th F.A. Bn	
43	2½-ton	" "	
44	1-ton Trailer	" "	
45	2½-ton	72nd AAA Bn	
46	3/4-ton	441st AAA Bn	
47	3/4-ton	10th F.A. Bn	
48	2½-ton	" "	
49	2½-ton	" "	
50	1/4-ton C&R	" "	
51	1/4-ton C&R	" "	
52	2½-ton	" "	
53	2½-ton	" "	
54	1-ton Trailer	" "	
55	2½-ton	534th AAA Bn	
56	40mm AA	" "	

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RECAPITULATION		
UNIT	IND	VEH
7th Infantry	202	81
9th F.A. Bn.	92	24
Div Arty Hq	73	20
634th F.A. Bn.	83	14
TOTAL	450	81

LST

ASN.....207....

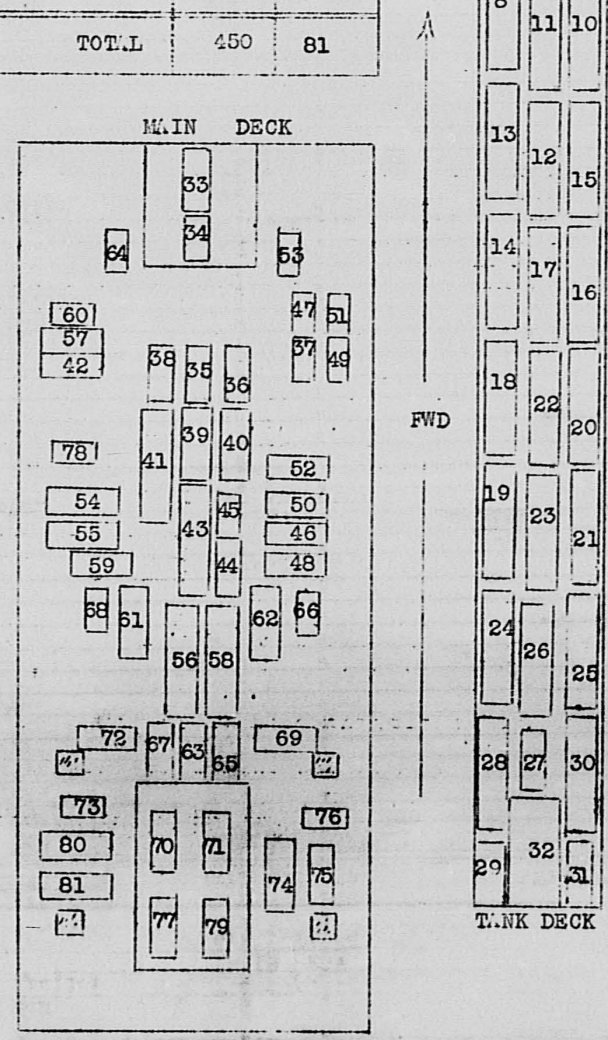
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LOADING LIST - IST 207
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	9th F.A. Bn.	
2	1/4-ton Trailer	" "	
3	1/4-ton C&R	" "	
4	1/4-ton Trailer	" "	
5	4-ton P/M	" "	
6	155 How	" "	
7	4-ton P/M	" "	
8	155 How	" "	
9	4-ton P/M	" "	
10	155 How	" "	
11	4-ton P/M	" "	
12	155 How	" "	
13	4-ton P/M	634th F.A. Bn.	
14	155 How	" "	
15	4-ton P/M	" "	
16	155 How	" "	
17	4-ton P/M	" "	
18	4-ton P/M	" "	
19	155 How	" "	
20	4-ton P/M	" "	
21	155 How	" "	
22	4-ton P/M	9th F.A. Bn.	
23	4-ton P/M	" "	
24	4-ton P/M	" "	
25	10-ton Wrecker	" "	
26	2½-ton	" "	
27	1-ton Trailer	" "	
28	2½-ton	Div Arty Hq	
29	1-ton Trailer	" "	
30	2½-ton	" "	
31	1-ton Trailer	" "	
32	D-4 Angledozer	9th F.A. Bn.	
33	1/4-ton C&R	7th Infantry	
34	1/4-ton Trailer	" "	
35	1/4-ton C&R	9th F.A. Bn.	
36	1/4-ton C&R	7th Infantry	
37	1/4-ton Trailer	" "	
38	1/4-ton C&R	9th F.A. Bn.	
39	3/4-ton	9th F.A. Bn.	
40	3/4-ton	634th F.A. Bn.	
41	2½-ton	Div Arty Hqs	
42	1-ton Trailer	" "	
43	2½-ton	634th FA Bn	
44	1/4-ton C&R	7th Infantry	
45	1/4-ton Trailer	" "	
46	1/4-ton C&R	" "	
47	1/4-ton Trailer	" "	
48	1/4-ton C&R	" "	
49	1/4-ton Trailer	" "	
50	1/4-ton C&R	" "	
51	1/4-ton Trailer	" "	
52	1/4-ton C&R	" "	
53	1/4-ton Trailer	" "	
54	3/4-ton	634th FA Bn	
55	3/4-ton	Div Arty Hq	
56	2½-ton	" "	
57	1-ton Trailer	" "	
58	2½-ton	9th FA Bn	
59	1/4-ton C&R	7th Infantry	
60	1/4-ton Trailer	" "	

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1618

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LOADING LIST - LST 207

(In order of priority for discharge)

(Continued from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
61	3/4-ton	Div Arty Hqs	
62	3/4-ton	" "	
63	1/4-ton C&R	7th Infantry	
64	1/4-ton Trailer	" "	
65	1/4-ton C&R	" "	
66	1/4-ton Trailer	" "	
67	1/4-ton C&R	" "	
68	1/4-ton Trailer	" "	
69	1/4-ton C&R	" "	
70	1/4-ton C&R	9th F.A. Bn.	
71	1/4-ton C&R	634th FA Bn	
72	1/4-ton C&R	Div Arty Hqs	
73	1/4-ton Trailer	" "	
74	Ambulance	" "	
75	1/4-ton C&R	" "	
76	1/4-ton Trailer	" "	
77	1/4-ton C&R	" "	
78	1/4-ton Trailer	" "	
79	1/4-ton C&R	634th FA Bn	
80	3/4-ton	Div Arty Hq	
81	3/4-ton	" "	

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RECAPITULATION		
UNIT	IND.	VEH.
9th F.A. Bn.	100	24
703rd Ordnance Co	10	6
5th AAA Grp Hq	33	8
534th AAA Bn	34	9
72nd AA Bn	35	7
Naval Combat Intel.	2	2
441st AAA Bn	48	8
104th Bar Bln Btry	20	3
7th Inf	170	
TOTAL	452	67

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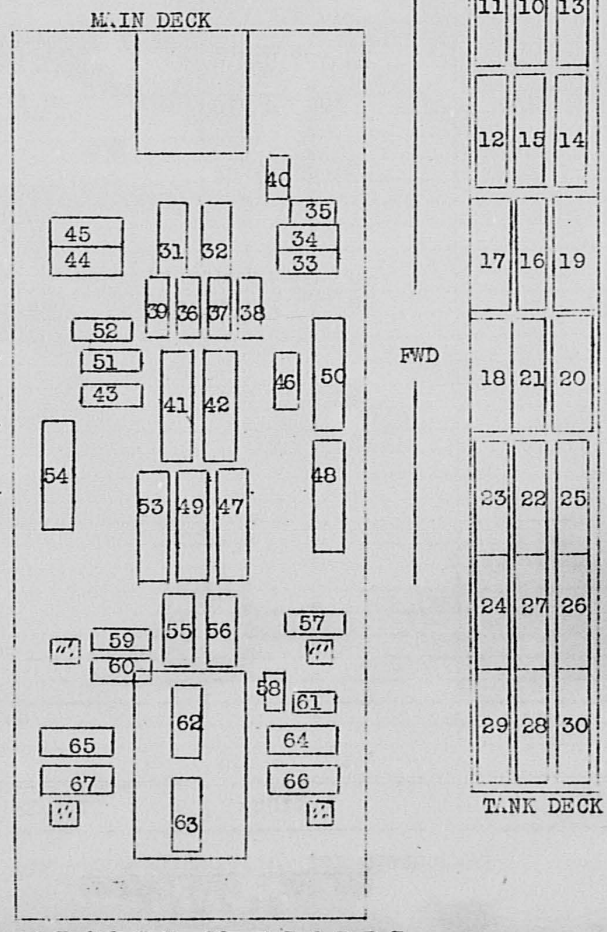
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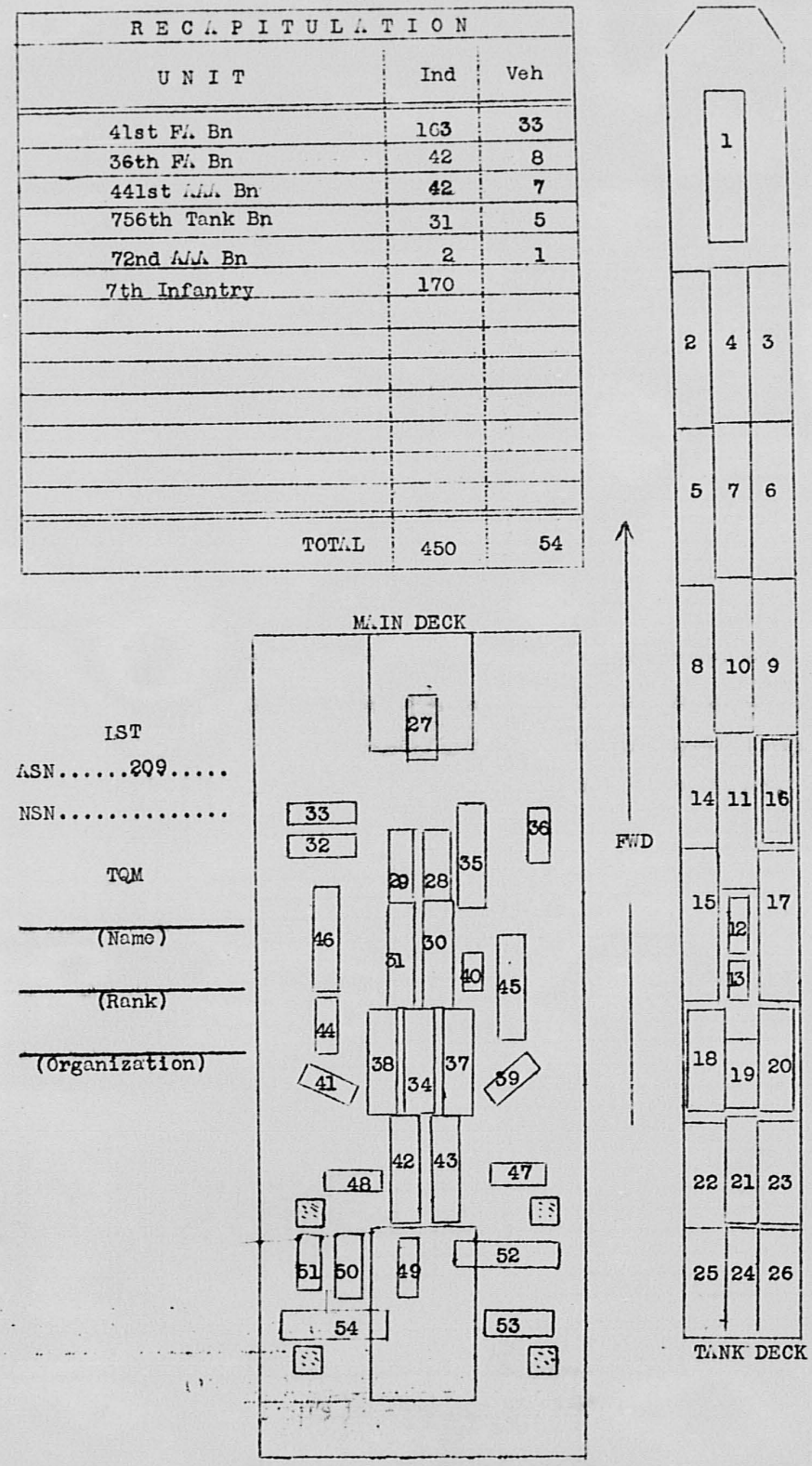
LOADING LIST - LST 208
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	4-ton	9th F... Bn.	
2	155 How	" "	
3	1/4-ton C&R	" "	
4	1/4-ton C&R	" "	
5.	4-ton	" "	
6	155 How	" "	
7	4-ton	" "	
8	155 How	" "	
9	4-ton	" "	
10	155 How	" "	
11	4-ton	" "	
12	155 How	" "	
13	4-ton	" "	
14	155 How	" "	
15	MM Halftrack	441st AAA Bn	
16	MM Halftrack	" "	
17	4-ton	9th F... Bn.	
18	155 How	" "	
19	4-ton	" "	
20	155 How	" "	
21	MM Halftrack	441st AAA Bn	
22	MM Halftrack	441st AAA Bn	
23	MM Halftrack	" "	
24	MM Halftrack	" "	
25	MM Halftrack	" "	
26	MM Halftrack	" "	
27	2½-ton	104th BB Bn	
28	3/4-ton	" "	
29	3/4-ton	" "	
30	2½-ton	9th F. Bn.	
31	3/4-ton	" "	
32	1/4-ton C&R	534th AAA Bn	
33	1-ton Trailer	" "	
34	1/4-ton C&R	5th AAA Grp	
35	1/4-ton Trailer	" "	
36	1/4-ton C&R	Naval Combat Int.	
37	1/4-ton C&R	" "	
38	1/4-ton C&R	9th F.... Bn.	
39	1/4-ton C&R	5th AAA Grp	
40	1/4-ton Trailer	" "	
41	2½-ton	72nd AAA Bn	
42	2½-ton	703rd Ordnance	
43	1-ton Trailer	703rd Ordnance	
44	3/4-ton	9th F. Bn	
45	3/4-ton	" "	
46	1/4-ton C&R	72nd AAA Bn	
47	2½-ton	534th AAA Bn	
48	40mm AA	" "	
49	2½-ton	" "	
50	40mm AA	" "	
51	1/4-ton C&R	" "	
52	1/4-ton C&R	72nd AAA Bn	
53	2½-ton	534th AAA Bn	
54	40mm AA	" "	
55	3/4-ton	5th AAA Grp	
56	3/4-ton	" "	
57	1/4-ton C&R	" "	
58	1/4-ton Trailer	" "	
59	1/4-ton C&R	703rd Ordnance	
60	1/4-ton C&R	" "	
61	1/4-ton Trailer	" "	
62	3/4-ton	" "	
63	3/4-ton	72nd AAA Bn	
64	3/4-ton	" "	
65	3/4-ton	" "	
66	3/4-ton	" "	
67	3/4-ton	9th F. Bn	

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RECAPITULATION		
UNIT	Ind	Veh
41st FA Bn	163	33
36th FA Bn	42	8
441st AA Bn	42	7
756th Tank Bn	31	5
72nd AA Bn	2	1
7th Infantry	170	
TOTAL	450	54



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1022

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LOADING LIST -- LST 209
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW w/105mm How	41st F.A. Bn.	
2	DUKW w/105mm How	" "	
3	DUKW w/105mm How	" "	
4	DUKW w/105mm How	" "	
5	DUKW w/105mm How	" "	
6	DUKW w/105mm How	" "	
7	DUKW w/ 1/4-ton C&R	" "	
8	DUKW	" "	
9	DUKW	" "	
10	DUKW	" "	
11	DUKW	" "	
12	1/4-ton C&R	441st AAA Bn	
13	1/4-ton Trailer	" "	
14	7½-ton F/M	36th FA Bn	
15	155 Gun	" "	
16	7½-ton F/M	" "	
17	155 Gun	" "	
18	D-4	41st FA Bn	
19	3/4-ton	72nd AAA Bn	
20	M7 How	756th Tank Bn	
21	2½-ton	441st AAA Bn	
22	M7 How	756th Tank Bn	
23	M7 How	" "	
24	2½-ton	41st FA Bn	
25	Tank (M)	753th Tank Bn	
26	Tank (M)	" "	
27	3/4-ton	36th FA Bn	
28	3/4-ton	" "	
29	3/4-ton	41st FA Bn	
30	2½-ton	" "	
31	2½-ton	" "	
32	3/4-ton	" "	
33	3/4-ton	" "	
34	2½-ton	" "	
35	2½-ton	" "	
36	1-ton Trailer	" "	
37	2½-ton	" "	
38	2½-ton	" "	
39	1/4-ton C&R	" "	
40	1/4-ton Trailer	" "	
41	1/4-ton C&R	" "	
42	2½-ton	" "	
43	2½-ton	36th FA Bn	
44	1/4-ton C&R	" "	
45	AAA Halftrack	441st AAA Bn	
46	AAA Halftrack	" "	
47	1/4-ton C&R	41st FA Bn	
48	1/4-ton C&R	" "	
49	1/4-ton C&R	" "	
50	3/4-ton	" "	
51	1-ton Trailer	" "	
52	AAA Halftrack	441st AAA Bn	
53	3/4-ton	41st FA Bn	
54	AAA Halftrack	441st AAA Bn	

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RECAPITULATION		
UNIT	IND	VEH
41st F.A. Bn.	162	32
441st AAA Bn	29	5
756th Tank Bn	31	5
634th F.A. Bn.	15	3
9th F.A. Bn.	27	12
69th Armd F.A. Bn.	16	2
7th Inf	170	
TOTAL	450	59

LST

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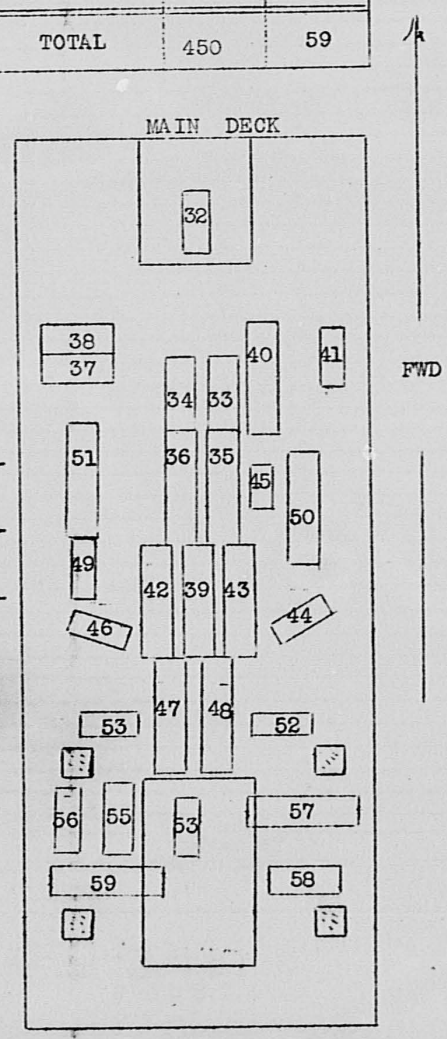
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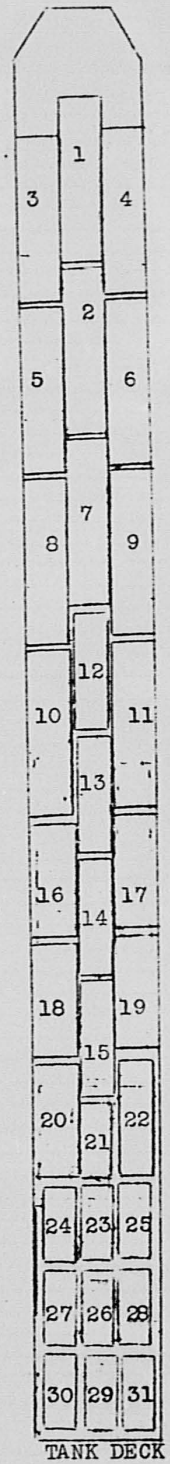
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LOADING LIST - LST 210
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW	41st FA Bn	
2	DUKW	" "	
3	DUKW	" "	
4	DUKW	" "	
5	DUKW	" "	
6	DUKW	" "	
7	DUKW	" "	
8	DUKW	" "	
9	DUKW	" "	
10	DUKW	" "	
11	DUKW	" "	
12	2½-ton	" "	
13	2½-ton	9th F.A. Bn.	
14	2½-ton	" "	
15	Halftrack	69th Armd FA Bn	
16	Tank (M)	756th Tank Bn	
17	Tank (M)	" "	
18	M7 How	" "	
19	M7 How	" "	
20	M7 How	" "	
21	3/4-ton W/C	9th F.A. Bn.	
22	Halftrack	69th Armd FA Bn	
23	3/4-ton W/C	9th F.A. Bn.	
24	3/4-ton W/C	" "	
25	3/4-ton W/C	" "	
26	3/4-ton W/C	" "	
27	3/4-ton W/C	" "	
28	3/4-ton W/C	" "	
29	3/4-ton W/C	" "	
30	3/4-ton W/C	" "	
31	3/4-ton W/C	" "	
32	3/4-ton	634th FA Bn	
33	3/4-ton	" "	
34	3/4-ton	41st FA Bn	
35	2½-ton	" "	
36	2½-ton	" "	
37	3/4-ton	" "	
38	3/4-ton	" "	
39	2½-ton	" "	
40	2½-ton	" "	
41	1-ton Trailer	" "	
42	2½-ton	" "	
43	2½-ton	" "	
44	1/4-ton C&R	" "	
45	1/4-ton Trailer	" "	
46	1/4-ton C&R	" "	
47	2½-ton	441st AAA Bn	
48	2½-ton	41st FA Bn	
49	1/4-ton C&R	634th FA Bn	
50	AAA Halftrack	441st AAA Bn	
51	AAA Halftrack	" "	
52	1/4-ton C&R	41st FA Bn	
53	1/4-ton C&R	" "	
54	1/4-ton C&R	" "	
55	3/4-ton	" "	
56	1-ton Trailer	" "	
57	AAA Halftrack	441st AAA Bn	
58	3/4-ton	41st F.A. Bn.	
59	AAA Halftrack	441st AAA Bn	

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1625

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SECRET

RECAPITULATION		
UNIT	IND	VEH
30th Infantry	16	23
10th Engr Bn	60	8
3rd Medical Bn	30	15
756th Tank Bn	4	3
36th F.A. Bn.	36	6
634th FA Bn	123	25
69th FA Bn	12	1
343 Engr Bn	2	1
7th Inf	170	
TOTAL	453	82

LST

ASN.....211...

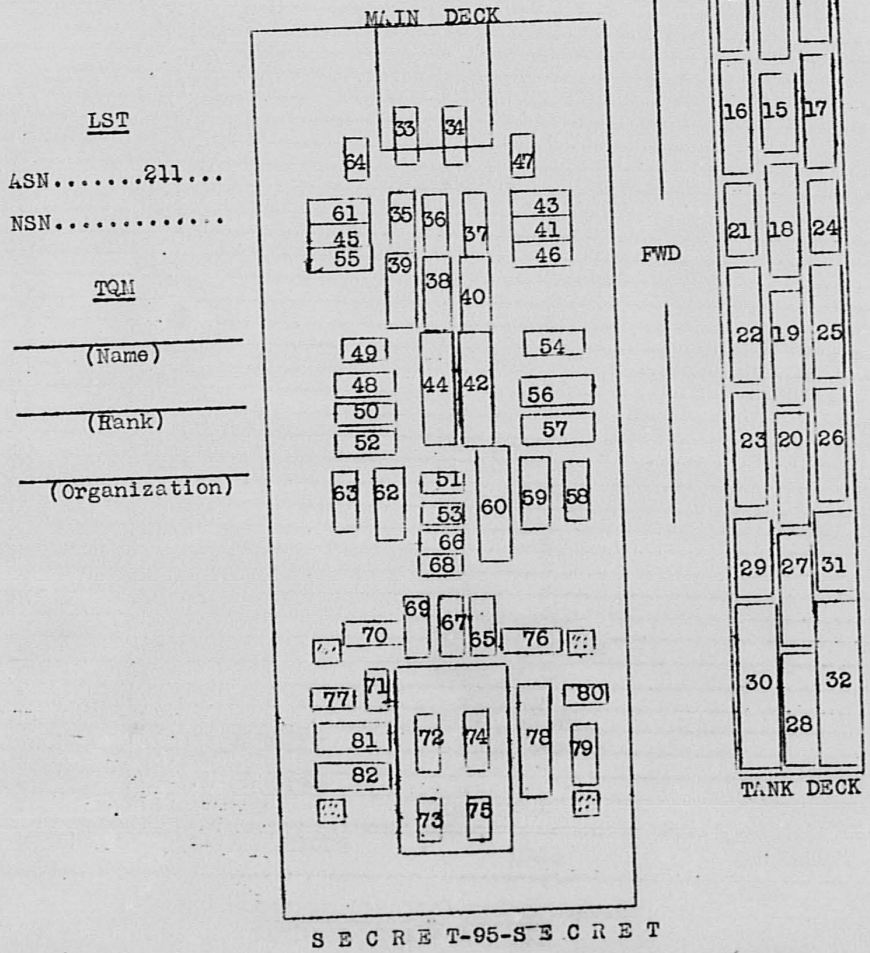
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TQM

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(Rank)

(Organization)



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LOADING LIST - LST 211
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	10th Engr	
2	1/4-ton Trailer	" "	
3	1/4-ton C&R	" "	
4	1/4-ton Trailer	" "	
5	4-ton	634th F.A. Bn	
6	155 How	" "	
7	2½-ton	69th F.A. Bn	
8	2½-ton	756th Tank Bn	
9	4-ton	634th F.A. Bn	
10	155 How	" "	
11	4-ton	" "	
12	155 How	" "	
13	4-ton	" "	
14	155 How	" "	
15	M4	36th F.A. Bn	
16	4-ton	634th F.A. Bn	
17	2½-ton	3rd Medical Bn	
18	2½-ton	" "	
19	2½-ton	" "	
20	2½-ton	" "	
21	3/4-ton	634th F.A. Bn	
22	2½-ton	" "	
23	4-ton	" "	
24	3/4-ton	" "	
25	2½-ton	" "	
26	2½-ton	" "	
27	2½-ton	" "	
28	2½-ton	3rd Medical Bn	
29	7½-ton	36th F.A. Bn	
30	155 Gun	" "	
31	7½-ton P/M	" "	
32	155 Gun	" "	
33	1/4-ton C&R	634th F.A. Bn	
34	1/4-ton C&R	" "	
35	1/4-ton C&R	" "	
36	1/4-ton C&R	" "	
37	1/4-ton C&R	3rd Medical Bn	
38	3/4-ton	634th F.A. Bn	
39	3/4-ton	" "	
40	3/4-ton	3rd Medical Bn	
41	1-ton Trailer	" "	
42	2½-ton	" "	
43	1-ton Trailer	" "	
44	2½-ton	" "	
45	1-ton Trailer	" "	
46	1/4-ton C&R	30th Infantry	
47	1/4-ton Trailer	" "	
48	1/4-ton C&R	" "	
49	1/4-ton Trailer	" "	
50	1/4-ton C&R	" "	
51	1/4-ton Trailer	" "	
52	1/4-ton C&R	" "	
53	1/4-ton Trailer	" "	
54	1/4-ton C&R	" "	
55	1/4-ton C&R	3rd Medical Bn	
56	3/4-ton	634th F.A. Bn	
57	3/4-ton	" "	
58	1/4-ton C&R	3rd Medical Bn	
59	3/4-ton	634th F.A. Bn	
60	2½-ton	756th Tank Bn	
61	1-ton Trailer	" "	
62	3/4-ton	36th F.A. Bn	

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LOADING LIST - LST 211

(In order of priority for discharge)

(Continued from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
63	1/4-ton C&R	30th Infantry	
64	1/4-ton Trailer	" "	
65	1/4-ton C&R	" "	
66	1/4-ton Trailer	" "	
67	1/4-ton C&R	" "	
68	1/4-ton Trailer	" "	
69	1/4-ton C&R	343 Engr Bn	
70	1/4-ton C&R	30th Infantry	
71	1/4-ton Trailer	" "	
72	1/4-ton C&R	" "	
73	1/4-ton Trailer	" "	
74	1/4-ton C&R	" "	
75	1/4-ton Trailer	" "	
76	1/4-ton C&R	" "	
77	1/4-ton Trailer	" "	
78	1½-ton	10th Engineer Bn	
79	1/4-ton C&R	" "	
80	1/4-ton Trailer	" "	
81	3/4-ton	" "	
82	3/4-ton	3rd Medical Bn.	

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RECAPITULATION		
UNIT	IND	VEH
30th Infantry	160	70
10th Engineer	40	8
3rd Medical Bn	30	7
441st AAA Bn	23	4
601st TD Bn	25	8
P.W.I.	1	2
72nd AAA Bn	2	1
7th Inf	170	
TOTAL	451	91

LST

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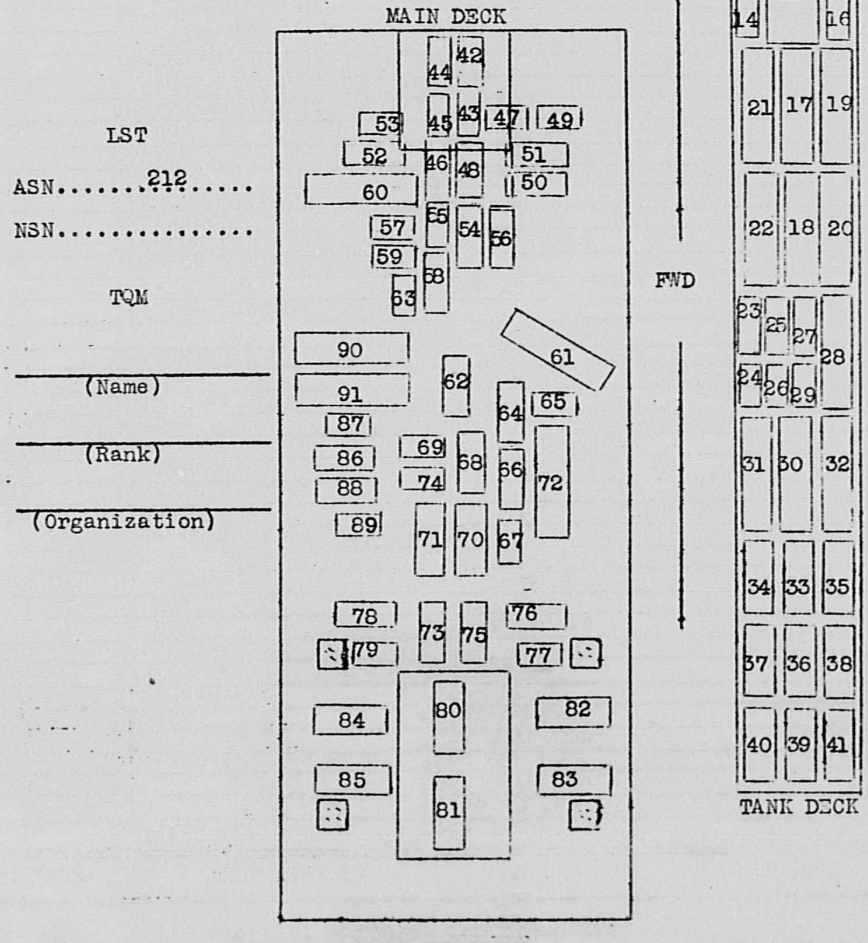
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LOADING LIST - LST 212
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	30th Infantry	
2	M10	601st TD Bn	
3	M7	30th Infantry	
4	3/4-ton	72nd AAA Bn	
5	M8 How	30th Infantry	
6	M10	601st TD Bn	
7	T-2 Recovery	" "	
8	3/4-ton	3rd Med. Bn	
9	1-ton Trailer	" "	
10	M8 How	30th Infantry	
11	M8 How	" "	
12	D7 Angledozer	10th Engr Bn	
13	1/4-ton C&R	30th Infantry	
14	1/4-ton Trailer	" "	
15	1/4-ton C&R	" "	
16	1/4-ton Trailer	" "	
17	2½-ton	601st TD Bn	
18	2½-ton	10th Engineer Bn	
19	2½-ton	" "	
20	Pole Trailer	" "	
21	2½-ton	" "	
22	2½-ton	" "	
23	1/4-ton C&R	30th Infantry	
24	1/4-ton Trailer	" "	
25	1/4-ton C&R	601st TD Bn	
26	1/4-ton Trailer	" "	
27	1/4-ton C&R	30th Infantry	
28	Halftrack	601st TD Bn	
29	1/4-ton Trailer	" "	
30	2½-ton	30th Infantry	
31	2½-ton	" "	
32	2½-ton	" "	
33	1½-ton w/57mm AT	" "	
34	1½-ton w/57mm AT	" "	
35	1½-ton w/57mm AT	" "	
36	1½-ton w/57mm AT	" "	
37	1½-ton w/57mm AT	" "	
38	1½-ton w/57mm AT	" "	
39	1½-ton w/57mm AT	" "	
40	1½-ton w/57mm AT	" "	
41	1½-ton w/57mm AT	" "	
42	1/4-ton C&R	" "	
43	1/4-ton Trailer	" "	
44	1/4-ton C&R	" "	
45	1/4-ton Trailer	" "	
46	1/4-ton C&R	" "	
47	1/4-ton Trailer	" "	
48	1/4-ton C&R	" "	
49	1/4-ton Trailer	" "	
50	1/4-ton C&R	10th Engineer Bn	
51	1/4-ton C&R	30th Infantry	
52	1/4-ton C&R	" "	
53	1/4-ton Trailer	" "	
54	1/4-ton C&R	" "	
55	1/4-ton Trailer	" "	
56	1/4-ton C&R	" "	
57	1/4-ton Trailer	" "	
58	1/4-ton C&R	" "	
59	1/4-ton Trailer	" "	
60	AAA	441st AAA Bn	
61	AAA	" "	
62	1/4-ton C&R	30th Infantry	

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LOADING LIST - LST 212
(In Order of priority for discharge)
(Continued from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
63	1/4-ton Trailer	30th Infantry	
64	1/4-ton C&R	" "	
65	1/4-ton Trailer	" "	
66	1/4-ton C&R	" "	
67	1/4-ton Trailer	" "	
68	1/4-ton C&R	" "	
69	1/4-ton Trailer	" "	
70	3/4-ton	" "	
71	3/4-ton	" "	
72	2½-ton	105th Engr Bn	
73	1/4-ton C&R	30th Infantry	
74	1/4-ton Trailer	" "	
75	1/4-ton C&R	83rd Medical Bn	
76	1/4-ton C&R	30th Infantry	
77	1/4-ton Trailer	" "	
78	1/4-ton C&R	P.W.I.	
79	1/4-ton Trailer	P.W.I.	
80	3/4-ton	3rd Mod. Bn	
81	Ambulance	" "	
82	Ambulance	" "	
83	Ambulance	" "	
84	3/4-ton	30th Infantry	
85	3/4-ton	" "	
86	1/4-ton C&R	" "	
87	1/4-ton Trailer	" "	
88	1/4-ton C&R	" "	
89	1/4-ton Trailer	" "	
90	Halftrack	441st AAA Bn	
91	.AAA	" "	

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RECAPITULATION		
UNIT	IND	VEH
30th Infantry	56	49
10th Engr Bn	60	9
3rd Medical Bn	30	5
441st AAA Bn	25	5
601st TD Bn	27	9
41st FA Bn	25	5
9th FA Bn	48	6
534th AAA Bn	5	1
756th Tank Bn	10	2
7th Inf	170	
TOTAL	456	91

LST

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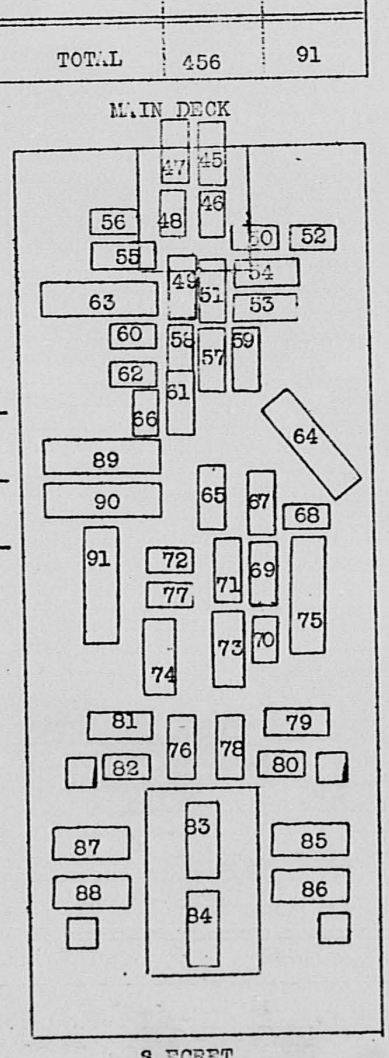
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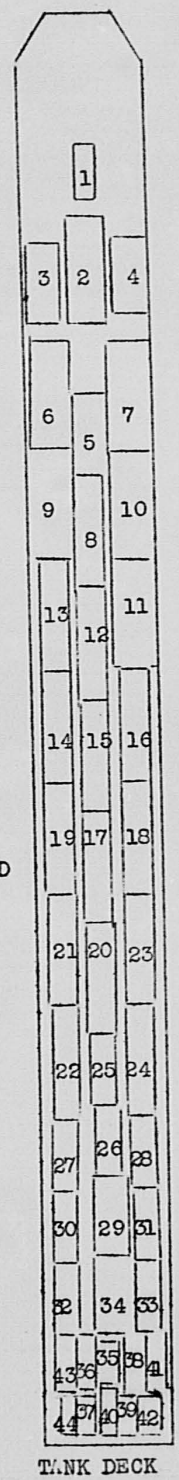
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LOADING LIST - LST 213
(In Order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	30th Infantry	
2	M10 TD	601st TD Bn	
3	M8 How	30th Infantry	
4	M8 How	" "	
5	M8 How	" "	
6	M10 TD	601st TD Bn	
7	M10 TD	" "	
8	2½-ton	" "	
9	Tank (M)	756th Tank Bn	
10	Tank (M)	" "	
11	M7 How	30th Infantry	
12	2½-ton	" "	
13	2½-ton	" "	
14	2½-ton	" "	
15	2½-ton	9th FA Bn	
16	2½-ton	" "	
17	2½-ton	" "	
18	2½-ton	" "	
19	2½-ton	10th Engr Bn	
20	2½-ton	" "	
21	2½-ton	" "	
22	Pole Trailer	" "	
23	2½-ton	" "	
24	Pole Trailer	" "	
25	3/4-ton W/C	3rd Med. Bn	
26	3/4-ton W/C	41st FA Bn	
27	3/4-ton W/C	" "	
28	3/4-ton W/C	" "	
29	M8 Car	601st TD Bn	
30	3/4-ton W/C	41st FA Bn	
31	3/4-ton W/C	" "	
32	3/4-ton W/C	9th FA Bn	
33	3/4-ton W/C	534th [illegible] Bn	
34	M8 Car	601st TD Bn	
35	1/4-ton Trailer	" "	
36	1/4-ton C&R	" "	
37	1/4-ton Trailer	" "	
38	1/4-ton C&R	30th Infantry	
39	1/4-ton Trailer	" "	
40	1/4-ton C&R	" "	
41	1/4-ton C&R	" "	
42	1/4-ton Trailer	" "	
43	1/4-ton C&R	" "	
44	1/4-ton Trailer	" "	
45	1/4-ton C&R	30th Infantry	
46	1/4-ton Trailer	" "	
47	1/4-ton C&R	" "	
48	1/4-ton Trailer	" "	
49	1/4-ton C&R	" "	
50	1/4-ton Trailer	" "	
51	1/4-ton C&R	" "	
52	1/4-ton Trailer	" "	
53	1/4-ton C&R	10th Engr Bn	
54	1/4-ton C&R	441st AAA Bn	
55	1/4-ton C&R	30th Infantry	
56	1/4-ton Trailer	" "	
57	1/4-ton C&R	" "	
58	1/4-ton Trailer	" "	
59	1/4-ton C&R	" "	
60	1/4-ton Trailer	" "	
61	1/4-ton C&R	" "	
62	1/4-ton Trailer	" "	

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LOADING LIST - LST 213

(In order of priority for discharge)

(cont'd from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
63	Halftrack	441st AAA Bn	
64	2½-ton	9th FA Bn	
65	1/4-ton C&R	30th Infantry	
66	1/4-ton Trailer	" "	
67	1/4-ton C&R	" "	
68	1/4-ton Trailer	" "	
69	1/4-ton C&R	" "	
70	1/4-ton Trailer	" "	
71	1/4-ton C&R	" "	
72	1/4-ton Trailer	" "	
73	3/4-ton	" "	
74	3/4-ton	" "	
75	2½-ton	10th Engr Bn	
76	1/4-ton C&R	30th Infantry	
77	1/4-ton Trailer	" "	
78	1/4-ton C&R	3rd Med Bn	
79	1/4-ton C&R	30th Infantry	
80	1/4-ton Trailer	" "	
81	1/4-ton C&R	" "	
82	1/4-ton Trailer	" "	
83	3/4-ton	10th Engr Bn	
84	Ambulance	3rd Med Bn.	
85	Ambulance	" "	
86	Ambulance	" "	
87	3/4-ton	30th Infantry	
88	3/4-ton	" "	
89	AAA	441st AAA Bn	
90	AAA	" "	
91	Halftrack	" "	

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RECAPITULATION		
UNIT	IND	VEH
3rd Medical Bn	30	7
3rd Q.M. Co	138	26
703rd Ordnance Co	10	7
46th Q.M.	20	3
441st AAA Bn	15	1
601st T.D. Bn.	37	9
756th Tank Bn	40	6
7th Infantry	170	
TOTAL	448	59

LST

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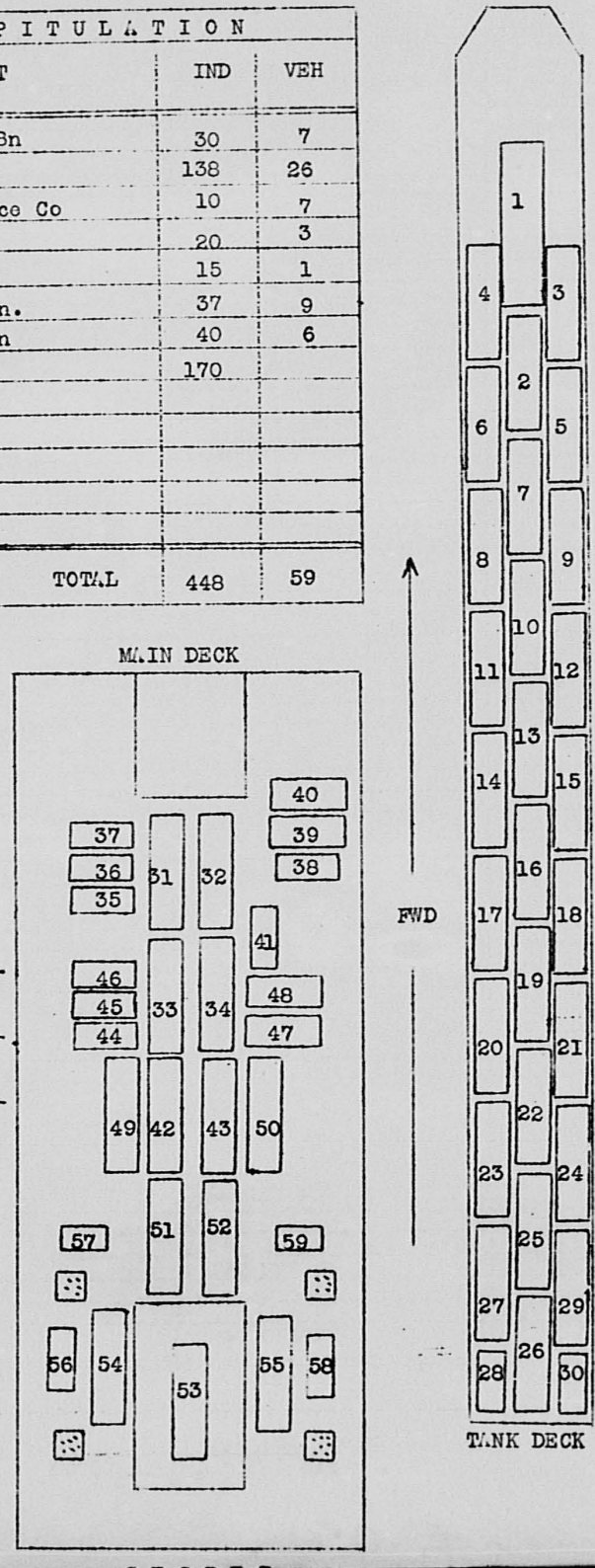
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LOADING LIST - LST 214
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	10-ton Wrecker	703rd Ordnance Co	
2	105mm How	" "	
3	2½-ton	" "	
4	2½-ton	441st AAA Bn	
5	M10 T.D.	601st TD Bn	
6	M10 T.D.	" "	
7	2½-ton	3rd Q.M. Co	
8	M10 T.D.	601st TD Bn	
9	M10 T.D.	" "	
10	2½-ton	3rd Q.M. Co	
11	M10 T.D.	601st TD Bn	
12	M10 T.D.	" "	
13	2½-ton	3rd Q.M. Co	
14	M10 T.D.	601st TD Bn	
15	Tank (M)	756th Tank Bn	
16	2½-ton	3rd Q.M. Co	
17	Tank (M)	756th Tank Bn	
18	Tank (M)	" "	
19	2½-ton	3rd Q.M. Co	
20	Tank (M)	756th Tank Bn	
21	2½-ton	3rd Q.M. Co	
22	2½-ton	" "	
23	Halftrack	756th Tank Bn	
24	Halftrack	" "	
25	2½-ton	3rd Med Bn (QM)	
26	2½-ton	3rd Med Bn (QM)	
27	2½-ton	3rd Med Bn	
28	1-ton Trailer	" "	
29	2½-ton	" "	
30	1-ton Trailer	" "	
31	2½-ton	3rd Q.M. Co	
32	2½-ton	" "	
33	2½-ton	" "	
34	2½-ton	" "	
35	1/4-ton C&R	3rd Med Bn.	
36	1/4-ton C&R	3rd Q.M. Co	
37	1/4-ton C&R	" "	
38	1/4-ton C&R	46th Q.M.	
39	3/4-ton	" "	
40	1-ton Trailer	" "	
41	1/4-ton C&R	703rd Ordnance	
42	2½-ton	3rd Q.M. Co	
43	2½-ton	" "	
44	1/4-ton C&R	" "	
45	1/4-ton C&R	" "	
46	1/4-to n C&R	" "	
47	3/4-ton	703rd Ordnance	
48	3/4-ton	3rd Q.M. Co	
49	2½-ton	" "	
50	2½-ton	" "	
51	2½-ton	" "	
52	2½-ton	" "	
53	2½-ton	" "	
54	2½-ton	" "	
55	2½-ton	" "	
56	1/4-ton C&R	601st TD Bn	
57	1/4-ton Trailer	" "	
58	1/4-ton C&R	703rd Ordnance	
59	1/4-ton Trailer	" "	

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RECAPITULATION		
UNIT	IND	VEH
15th Infantry	83	49
10th Engr Bn	50	9
3rd Medical Bn	30	5
441st AAA Bn	25	5
601st TD Bn	42	11
39th FA Bn	25	5
69th FA Bn	25	6
7th Inf	450	
TOTAL		90

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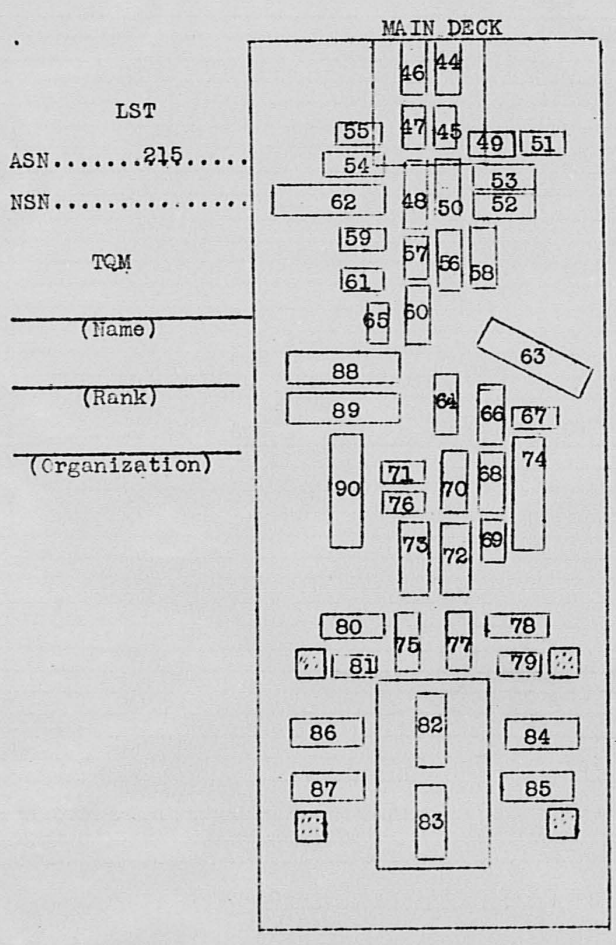
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S E C R E T

LOADING LIST - LST 215

(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	Halftrack	601st TD Bn	
2	M8 How	15th Infantry	
3	M8 How	" "	
4	M7 How	" "	
5	M10 TD	601st TD Bn	
6	M8 How	" "	
7	M10 TD	" "	
8	M10 TD	" "	
9	M8 Cac	" "	
10	1/4-ton Trailer	" "	
11	M10 TD	" "	
12	M10 TD	" "	
13	1/4-ton C&R	15th Infantry	
14	1/4-ton Trailer	" "	
15	1/4-ton C&R	" "	
16	1/4-ton Trailer	" "	
17	1/4-ton C&R	10th Engr Bn	
18	1/4-ton C&R	601st TD Bn	
19	1/4-ton Trailer	" "	
20	1/4-ton C&R	15th Infantry	
21	1/4-ton Trailer	" "	
22	1/4-ton C&R	" "	
23	3/4-ton	3rd Med Bn.	
24	3/4-ton	39th F.A. Bn.	
25	3/4-ton	" "	
26	3/4-ton	" "	
27	3/4-ton	" "	
28	3/4-ton	" "	
29	3/4-ton	69th F.A. Bn.	
30	2½-ton	10th Engr Bn	
31	Pole Trailer	" "	
32	2½-ton	" "	
33	Pole Trailer	" "	
34	2½-ton	" "	
35	2½-ton	" "	
36	2½-ton	601st TD Bn	
37	2½-ton	15th Infantry	
38	2½-ton	" "	
39	2½-ton	" "	
40	2½-ton	69th F.A. Bn.	
41	2½-ton	" "	
42	2½-ton	" "	
43	2½-ton	" "	
44	1/4-ton C&R	15th Infantry	
45	1/4-ton Trailer	" "	
46	1/4-ton C&R	" "	
47	1/4-ton Trailer	" "	
48	1/4-ton C&R	" "	
49	1/4-ton Trailer	" "	
50	1/4-ton C&R	" "	
51	1/4-ton Trailer	" "	
52	1/4-ton C&R	" "	
53	1/4-ton C&R	441st AAA Bn	
54	1/4-ton C&R	15th Infantry	
55	1/4-ton Trailer	" "	
56	1/4-ton C&R	" "	
57	1/4-ton Trailer	" "	
58	1/4-ton C&R	" "	
59	1/4-ton Trailer	" "	
60	1/4-ton C&R	" "	
61	1/4-ton Trailer	" "	

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LOADING LIST - LST 215

(In order of priority for discharge)

(continued from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
62	Halftrack	441st AAA Bn	
63	2½-ton	69th F.A. Bn.	
64	1/4-ton C&R	15th Infantry	
65	1/4-ton Trailer	" "	
66	1/4-ton C&R	" "	
67	1/4-ton Trailer	" "	
68	1/4-ton C&R	" "	
69	1/4-ton Trailer	" "	
70	1/4-ton C&R	" "	
71	1/4-ton Trailer	" "	
72	3/4-ton	" "	
73	3/4-ton	" "	
74	2½-ton	10th Engr Bn.	
75	1/4-ton C&R	15th Infantry	
76	1/4-ton Trailer	" "	
77	1/4-ton C&R	3rd Med. Bn.	
78	1/4-ton C&R	15th Infantry	
79	1/4-ton Trailer	" "	
80	1/4-ton C&R	" "	
81	1/4-ton Trailer	" "	
82	3/4-ton	10th Engr Bn	
83	Ambulance	3rd Med Bn.	
84	Ambulance	" "	
85	Ambulance	" "	
86	3/4-ton	15th Infantry	
87	3/4-ton	" "	
88	AAA	441st AAA Bn	
89	AAA	" "	
90	Halftrack	" "	

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RECAPITULATION		
UNIT	IND	VEH
15th Infantry	20	13
703rd Ordnance Co	10	7
756th Tank Bn	79	16
3rd Chem. Bn	32	11
69th F.A.,	14	4
52nd Med Bn	20	5
10th Field Hosp	25	3
441st AAA Bn	15	1
534th AAA Bn	56	10
36th Engineer	3	1
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Air Force	6	
7th Inf	170	
TOTAL	450	71

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ASN.....216.....

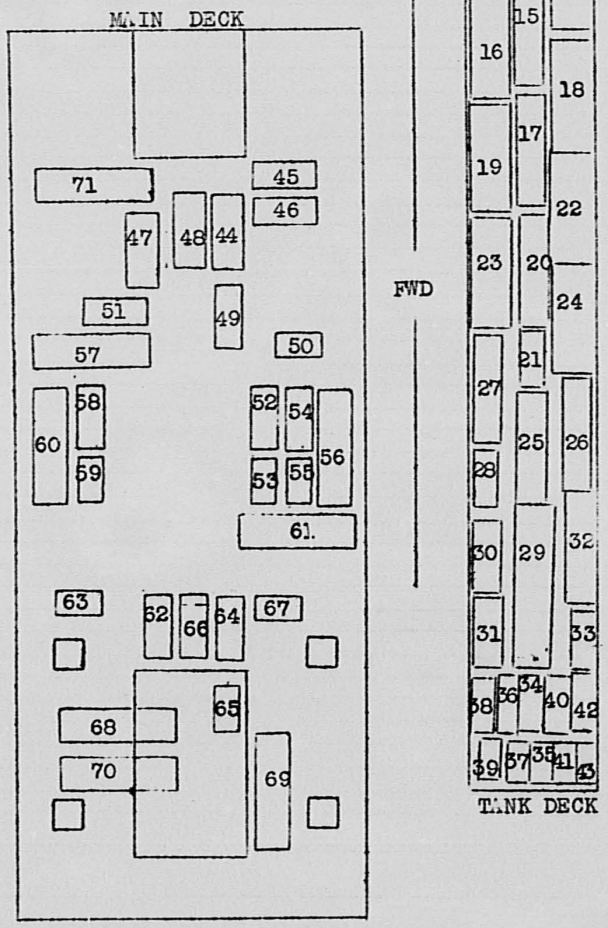
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(Rank)

(Organization)



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LOADING LIST - LST 216
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	D7 Angledozer	36th Engr	
2	Tank (M)	756th Tank Bn	
3	1/4-ton C&R	" "	
4	Halftrack	" "	
5	Halftrack	3rd Chem Bn	
6	Halftrack	756th Tank Bn	
7	Tank (M)	" "	
8	Tank (M)	" "	
9	2½-ton	703rd Ord. Co	
10	1-ton Trailer	" "	
11	Tank (M)	756th Tank Bn	
12	Tank (M)	" "	
13	Tank (M)	" "	
14	T-2 Recovery	" "	
15	2½-ton	44[illegible]st AAA Bn	
16	Tank (M)	756th Tank Bn	
17	2½-ton	3rd Chem Bn	
18	Tank (M)	756th Tank Bn	
19	Tank (M)	" "	
20	2½-ton	52nd Med Bn	
21	1-ton Trailer	" "	
22	Tank (M)	756th Tank Bn	
23	Tank (M)	" "	
24	Tank (M)	" "	
25	2½-ton	534th AAA Bn	
26	2½-ton	10th Field Hosp	
27	2½-ton	" "	
28	1-ton	" "	
29	10-ton Wrecker	703rd Ord Co	
30	3/4-ton	534th AAA Bn	
31	3/4-ton	703rd Ord Co	
32	Halftrack	69th FA Bn	
33	1-ton Trailer	" "	
34	1/4-ton C&R	3rd Chem Bn	
35	1/4-ton Trailer	" "	
36	1/4-ton C&R	" "	
37	1/4-ton Trailer	" "	
38	1/4-ton C&R	" "	
39	1/4-ton Trailer	" "	
40	1/4-ton C&R	" "	
41	1/4-ton Trailer	" "	
42	1/4-ton C&R	" "	
43	1/4-ton Trailer	" "	
44	3/4-ton	69th FA Bn	
45	1/4-ton C&R	703rd Ord Co	
46	1/4-ton C&R	52nd Med Bn	
47	Ambulance	" "	
48	Ambulance	" "	
49	1/4-ton C&R	703rd Ord Co	
50	1/4-ton Trailer	" "	
51	1/4-ton C&R	15th Infantry	
52	1/4-ton C&R	" "	
53	1/4-ton Trailer	" "	
54	1/4-ton C&R	" "	
55	1/4-ton Trailer	" "	
56	2½-ton	534th AAA Bn	
57	40mm AA	" "	
58	1/4-ton C&R	15th Infantry	
59	1/4-ton Trailer	" "	
60	2½-ton	534th AAA Bn	

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LOADING LIST - LST 216

(In order of priority for discharge)

(Continued from page one)

PRIORITY	TYPE VEHICLE	UNIT	W NUMBER
61	40mm AA	534th AAA Bn	
62	1/4-ton C&R	15th Infantry	
63	1/4-ton Trailer	" "	
64	1/4-ton C&R	" "	
65	1/4-ton Trailer	" "	
66	1/4-ton C&R	" "	
67	1/4-ton Trailer	" "	
68	2½-ton	534th AAA Bn	
69	40mm AA	" "	
70	2½-ton	" "	
71	40mm AA	" "	

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RECAPITULATION		
UNIT	IND	VEH
15th Infantry	5	8
601st TD Bn	13	4
756th Tank Bn	5	1
3rd Chem. Bn	52	16
52nd Med. Bn	47	9
10th Field Hosp	25	5
44[illegible] AA Bn	63	9
104th Gar Bln Btry	20	2
36th Engr Regt	2	1
3rd QM Co	65	15
30th Inf	144	
Air Force Detail		
TOTAL	447	70

LST

ASN.....217.....

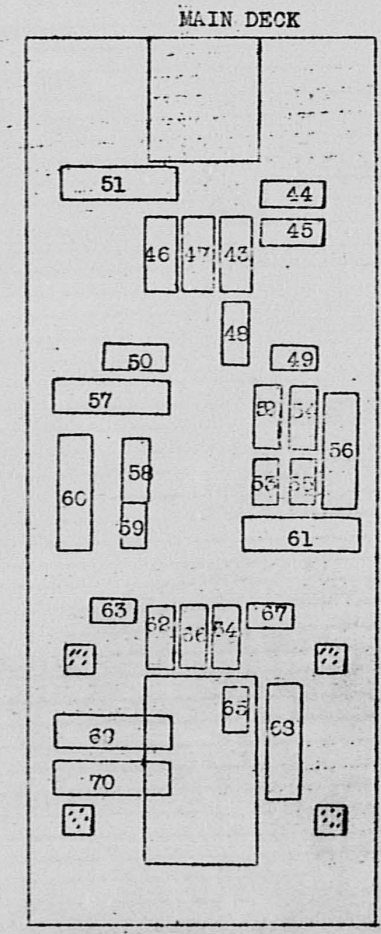
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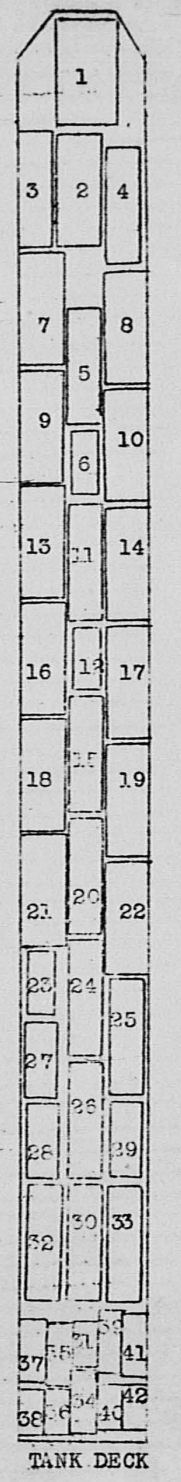
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SECRET

LOADING LIST Ltr 217

(In order of priority for discharge)

PRIORITY		W-NUMBER
1	D7 Angledozer	36th Engr Regt
2	Tank (M4)	753th Tank Bn
3	2½-ton	3rd QM Co
4	2½-ton	" "
5	2½-ton	10th Field Hosp
6	1½-ton Trailer	" "
7	2½-ton	3rd QM Co
8	2½-ton	" "
9	2½-ton	" "
10	2½-ton	" "
11	2½-ton	52nd Med Bn
12	1-ton Trailer	" "
13	2½-ton	3rd QM Co
14	2½-ton	" "
15	2½-ton	601st TD Bn
16	2½-ton	3rd QM Co
17	2½-ton	" "
18	2½-ton	" "
19	M8 Car	601st TD Bn
20	2½-ton	3rd Cml Bn
21	2½-ton	3rd QM Co
22	2½-ton	" "
23	1/4-ton C&R	10th Field Hosp
24	2½-ton	" "
25	2½-ton	52nd Med Bn
26	2½-ton	3rd Cml Bn
27	3/4-ton	10th Field Hosp
28	3/4-ton	104th BB Bn
29	Ambulance	52nd Med Bn
30	Halftrack	601st TD Bn
31	1/4-ton Trailer	" "
32	2½-ton	441st AAA Bn
33	2½-ton	104th BB Bn
34	1/4-ton C&R	15th Infantry
35	1/4-ton C&R	" "
36	1/4-ton Trailer	" "
37	1/4-ton C&R	" "
38	1/4-ton Trailer	" "
39	1/4-ton C&R	" "
40	1/4-ton Trailer	" "
41	1/4-ton C&R	3rd QM Co
42	1/4-ton Trailer	" "
43	Ambulance	52nd Med Bn
44	1/4-ton C&R	" "
45	1-ton Trailer	" "
46	Ambulance	" "
47	Ambulance	" "
48	1/4-ton C&R	3rd Chem. Bn
49	1/4-ton Trailer	" "
50	1/4-ton C&R	15th Infantry
51	AAA Halftrack	441st AAA Bn
52	1/4-ton C&R	3rd Chem. Bn.
53	1/4-ton Trailer	" "
54	1/4-ton C&R	" "
55	1/4-ton Trailer	" "
56	AAA Halftrack	441st AAA Bn
57	AAA Halftrack	" "
58	1/4-ton C&R	3rd Chem. Bn
59	1/4-ton Trailer	" "
60	AAA Halftrack	441st AAA Bn
61	AAA Halftrack	" "
62	1/4-ton C&R	3rd Chem. Bn
63	1/4-ton Trailer	" "
64	1/4-ton C&R	" "
65	1/4-ton Trailer	" "
66	1/4-ton C&R	" "
67	1/4-ton Trailer	" "
68	AAA Halftrack	441st AAA Bn
69	AAA Halftrack	441st AAA Bn
70	AAA Halftrack	441st AAA Bn

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RECAPITULATION		
UNIT	IND	VEH
39th F.A. BN	165	32
601st T.D. Bn	26	6
534th AAA Bn	25	5
72nd AAA Bn	90	14
3rd Rcn Tr Battle Pat.	144	
TOTAL	450	57

LST

ASN.....218.....

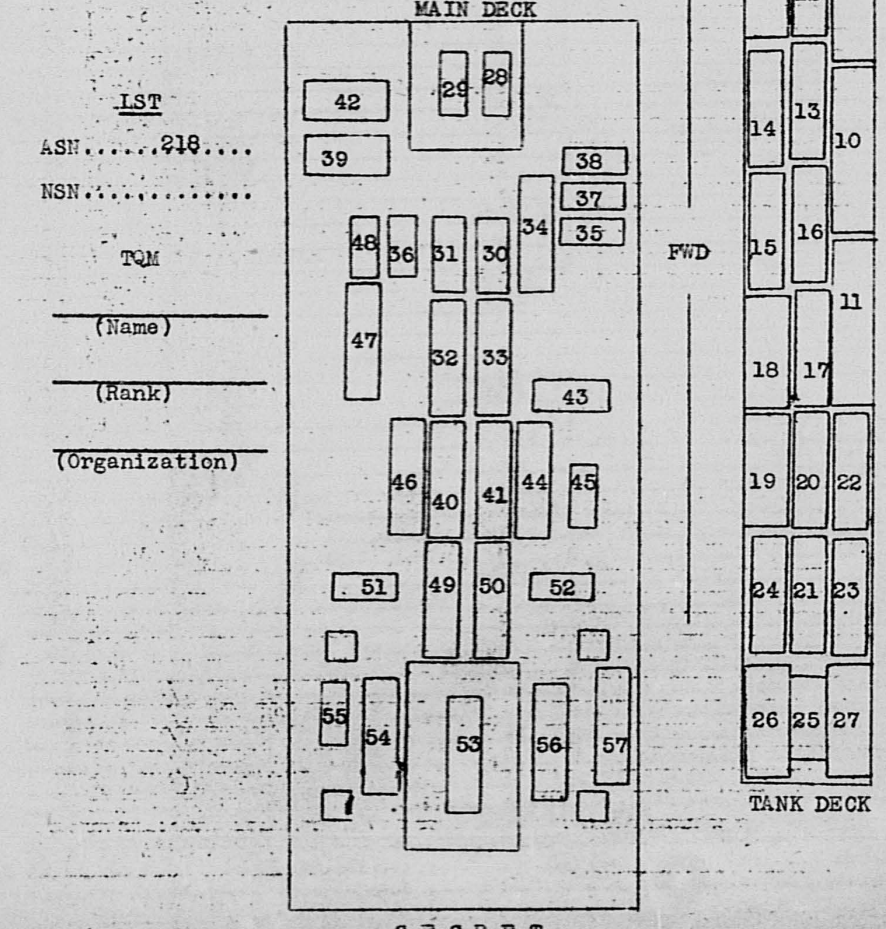
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LOADING LIST - LST 218
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW w/105mm How	39th F.A. Bn.	
2	DUKW w/105mm How	" "	
3	DUKW w/105mm How	" "	
4	DUKW w/105mm How	" "	
5	DUKW w/105mm How	" "	
6	DUKW w/105mm How	" "	
7	DUKW	" "	
8	DUKW	" "	
9	DUKW	" "	
10	DUKW	" "	
11	DUKW	" "	
12	7½-ton P/M	72nd AA Bn	
13	90mm AA	" "	
14	2½-ton	" "	
15	Van Trailer	" "	
16	7½-ton P/M	" "	
17	90mm AA	" "	
18	M10 TD	601st TD Bn	
19	M10 TD	" "	
20	7½-ton P/M	72nd AA Bn	
21	90mm AA	" "	
22	7½-ton P/M	" "	
23	90mm AA	" "	
24	2½-ton	534th AAA Bn	
25	M8 Car	601st TD Bn	
26	T-2 Recovery	" "	
27	M10 TD	" "	
28	1/4-ton C&R	39th FA Bn	
29	1/4-ton C&R	" "	
30	3/4-ton	" "	
31	3/4-ton	" "	
32	2½-ton	72nd AA Bn	
33	2½-ton	39th FA Bn	
34	2½-ton	" "	
35	1/4-ton C&R	" "	
36	1/4-ton Trailer	" "	
37	1/4-ton C&R	601st TD Bn	
38	1/4-ton C&R	72nd AA Bn	
39	3/4-ton	39th FA Bn	
40	2½-ton	" "	
41	2½-ton	72nd AA Bn	
42	Power Trailer	" "	
43	3/4-ton	39th FA Bn	
44	2½-ton	" "	
45	1-ton Trailer	" "	
46	2½-ton	534th AA Bn	
47	40mm AA	" "	
48	3/4-ton	39th FA Bn	
49	2½-ton	" "	
50	2½-ton	" "	
51	1/4-ton C&R	" "	
52	1/4-ton C&R	" "	
53	2½-ton	" "	
54	2½-ton	" "	
55	1-ton Trailer	" "	
56	2½-ton	534th AA Bn	
57	40mm AA	" "	

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RECAPITULATION		
UNIT	IND	VEH.
39th FA Bn	200	33
601st TD Bn	17	4
534th AAA Bn	33	5
72nd AAA Bn	51	14
36th Engr Bn	2	1
15th Inf	144	
TOTAL	447	57

LST

ASN.....219....

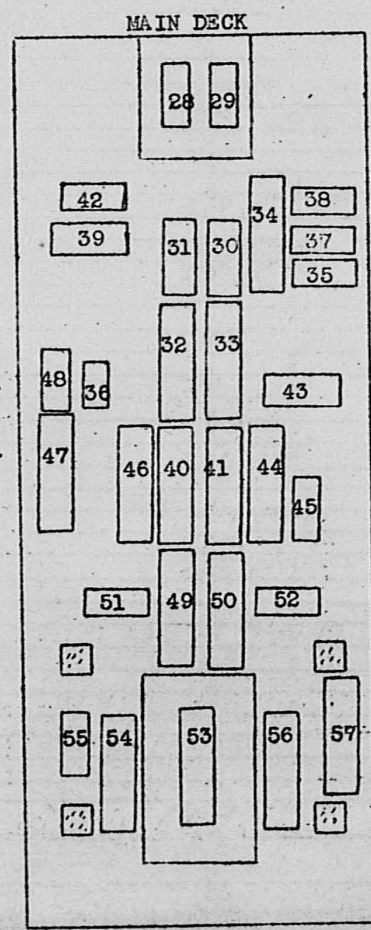
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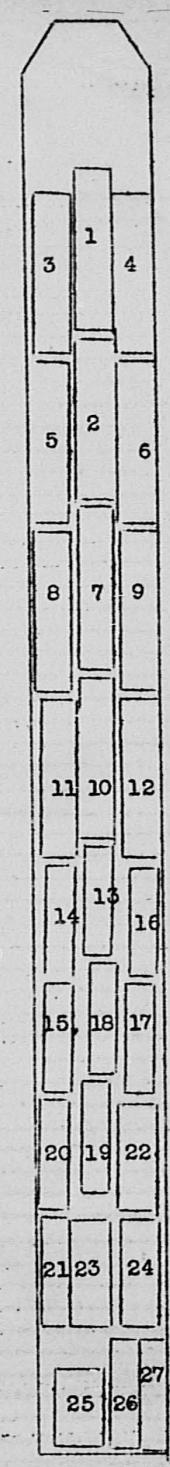
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FWD



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LOADING LIST - LST 219
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	W-NUMBER
1	DUKW	39th F.A. Bn.
2	DUKW	" "
3	DUKW	" "
4	DUKW	" "
5	DUKW	" "
6	DUKW	" "
7	DUKW	" "
8	DUKW	" "
9	DUKW	" "
10	DUKW	" "
11	DUKW	" "
12	DUKW	36th Engineer
13	2½-ton	601st TD Bn
14	7½-ton P/M	72nd AAA Bn
15	90mm AA	" "
16	7½-ton P/M	" "
17	90mm AA	" "
18	7½-ton P/M	" "
19	90mm AA	" "
20	7½-ton P/M	" "
21	90mm AA	" "
22	M10 TD	601st TD Bn
23	M10 TD	" "
24	M10 TD	" "
25	D4 Dozer	39th FA Bn
26	2½-ton	72nd AAA Bn
27	Van Trailer	" "
28	1/4-ton C&R	39th F.A. Bn.
29	1/4-ton C&R	" "
30	3/4-ton	" "
31	3/4-ton	" "
32	2½-ton	72nd AAA Bn
33	2½-ton	39th F.A. Bn.
34	2½-ton	" "
35	1/4-ton C&R	" "
36	1/4-ton Trailer	" "
37	1/4-ton C&R	534th AAA Bn
38	1/4-ton C&R	72nd AAA Bn
39	3/4-ton	39th F.A. Bn.
40	2½-ton	" "
41	2½-ton	72nd AAA Bn
42	Power Trailer	" "
43	3/4-ton	39th F.A. Bn.
44	2½-ton	" "
45	1-ton Trailer	" "
46	2½-ton	534th AAA Bn
47	40mm AAA	" "
48	3/4-ton	39th F.A. Bn
49	2½-ton	" "
50	2½-ton	" "
51	1/4-ton C&R	" "
52	1/4-ton C&R	" "
53	2½-ton	" "
54	2½-ton	" "
55	1-ton Trailer	" "
56	2½-ton	534th AAA Bn
57	40mm AAA	" "

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RECAPITULATION		
UNIT	IND	VEH
15th Infantry	195	63
10th Engineer	40	8
3rd Medical Bn	30	7
441st AAA Bn	22	4
601st TD Bn	19	6
P.W.I.	1	2
39th FA Bn	37	
72nd AAA Bn	107	
TOTAL	451	90

LST

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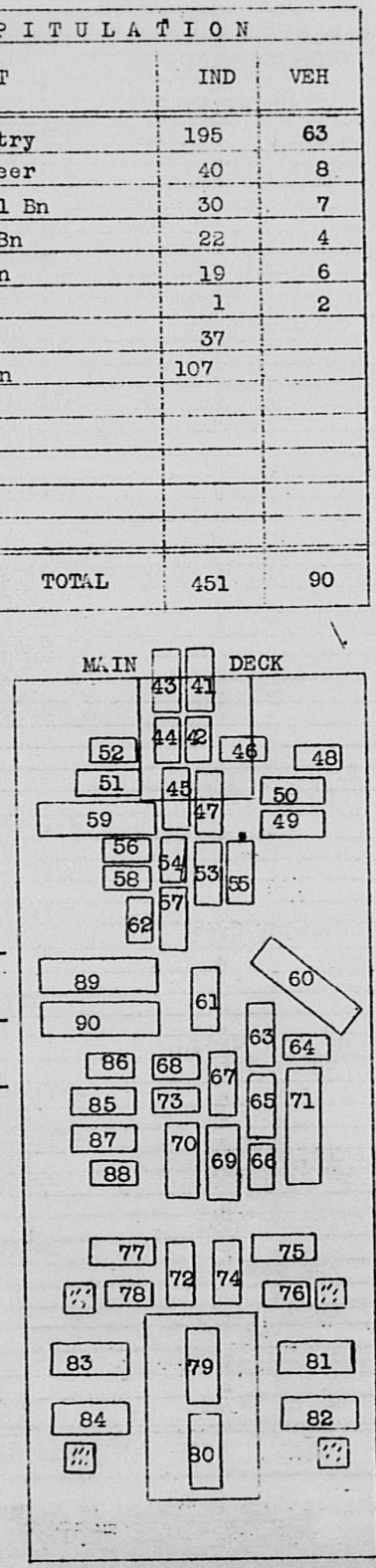
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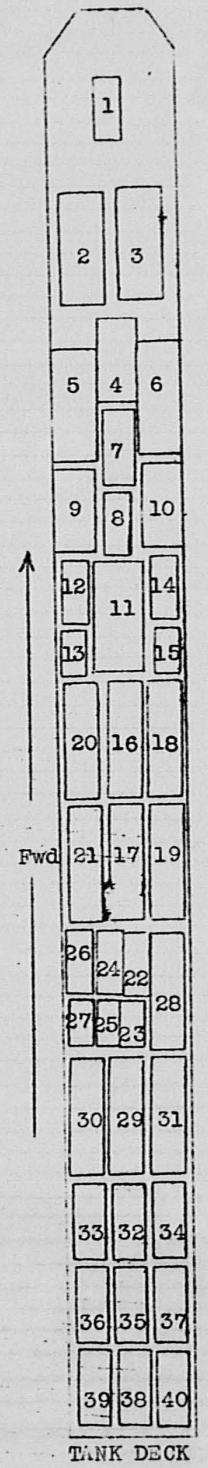
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SECRET

LOADING LIST - LST 220
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	1/4-ton C&R	601st TD Bn	
2	M10	" "	
3	M7	15th Infantry	
4	M8 How	" "	
5	M10	601st TD Bn	
6	M10	" "	
7	3/4-ton	3rd Med Bn.	
8	1-ton Trailer	" "	
9	M8 How	15th Infantry	
10	M8 How	" "	
11	D7 Angledozer	10th Engr Bn	
12	1/4-ton C&R	15th Infantry	
13	1/4-ton Trailer	" "	
14	1/4-ton C&R	" "	
15	1/4-ton Trailer	" "	
16	2½-ton	601st TD Bn	
17	2½-ton	10th Engr Bn	
18	2½-ton	" "	
19	Pole Trailer	" "	
20	2½-ton	" "	
21	2½-ton	" "	
22	1/4-ton C&R	15th Infantry	
23	1/4-ton Trailer	" "	
24	1/4-ton C&R	" "	
25	1/4-ton Trailer	" "	
26	1/4-ton C&R	" "	
27	1/4-ton Trailer	" "	
28	Halftrack	601st TD Bn	
29	2½-ton	15th Infantry	
30	2½-ton	" "	
31	2½-ton	" "	
32	1½-ton w/57mm AT	" "	
33	1½-ton w/57mm AT	" "	
34	1½-ton w/57mm AT	" "	
35	1½-ton w/57mm AT	" "	
36	1½-ton w/57mm AT	" "	
37	1½-ton w/57mm AT	" "	
38	1½-ton w/57mm AT	" "	
39	1½-ton w/57mm AT	" "	
40	1½-ton w/57mm AT	" "	
41	1/4-ton C&R	" "	
42	1/4-ton Trailer	" "	
43	1/4-ton C&R	" "	
44	1/4-ton Trailer	" "	
45	1/4-ton C&R	" "	
46	1/4-ton Trailer	" "	
47	1/4-ton C&R	" "	
48	1/4-ton Trailer	" "	
49	1/4-ton C&R	10th Engr Bn	
50	1/4-ton C&R	15th Infantry	
51	1/4-ton C&R	" "	
52	1/4-ton Trailer	" "	
53	1/4-ton C&R	" "	
54	1/4-ton Trailer	" "	
55	1/4-ton C&R	" "	
56	1/4-ton Trailer	" "	
57	1/4-ton C&R	" "	
58	1/4-ton Trailer	" "	
59	Halftrack	441st AAA Bn	
60	AAA	" "	
61	1/4-ton C&R	15th Infantry	
62	1/4-ton Trailer	" "	
63	1/4-ton C&R	" "	
64	1/4-ton Trailer	" "	
65	1/4-ton C&R	" "	

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LOADING LIST - LST 220

(In order of priority for discharge)

(Cont'd from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
66	1/4-ton Trailer	15th Infantry	
67	1/4-ton C&R	" "	
68	1/4-ton Trailer	" "	
69	3/4-ton	" "	
70	3/4-ton	" "	
71	2½-ton	10th Engr Bn	
72	1/4-ton C&R	15th Infantry	
73	1/4-ton Trailer	" "	
74	1/4-ton C&R	3rd Med Bn.	
75	1/4-ton C&R	15th Infantry	
76	1/4-ton Trailer	" "	
77	1/4-ton C&R	P.W.I.	
78	1/4-ton Trailer	"	
79	3/4-ton	3rd Med Bn.	
80	Ambulance	" "	
81	Ambulance	" "	
82	Ambulance	" "	
83	3/4-ton	15th Infantry	
84	3/4-ton	15th Infantry	
85	1/4-ton C&R	" "	
86	1/4-ton Trailer	" "	
87	1/4-ton C&R	" "	
88	1/4-ton Trailer	" "	
89	Halftrack	441st AAA Bn	
90	AAA	" "	

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RECAPITULATION		
UNIT	IND	VEH
Division Hq Co		27
3d Div MP Plat		7
3rd Signal Co		33
10th Engr Bn		1
3rd Recon Trp		1
P.W.I.		2
Photo Int Unit		2
C.I.C.		4
3d Tac Sq.		3
163 Sig. Photo		4
Battle Order		2
Civil Affairs		2
Sea Bees		2
TOTAL	450	90

LST

ASN ....~~221~~....

NSN.....

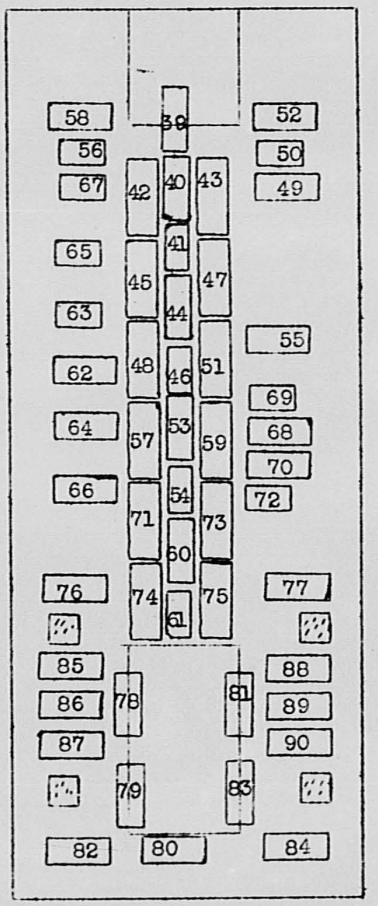
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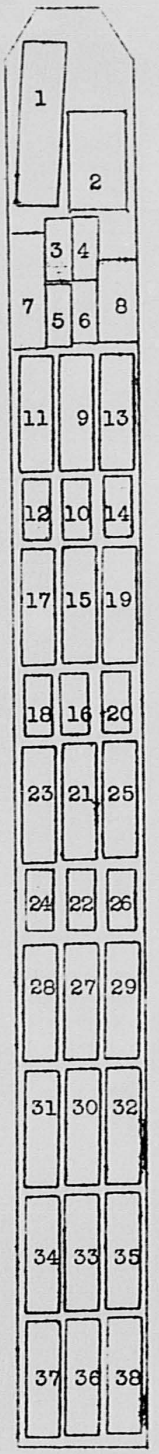
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MAIN DECK



FWD



TANK DECK

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LOADING LIST - LST 221
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW	Sea Bees	
2	D7 Angledozer	" "	
3	1/4-ton C&R	3rd Signal Co	
4	1/4-ton C&R	3rd Div. MP	
5	1/4-ton C&R	" "	
6	1/4-ton C&R	" "	
7	1½-ton 6x6	3rd Signal Co	
8	M8 Car	3rd Recn Trp	
9	2½-ton	Div Hqs.	
10	1-ton Trailer	" "	
11	2½-ton	" "	
12	1-ton Trailer	" "	
13	2½-ton	" "	
14	1-ton Trailer	" "	
15	2½-ton	" "	
16	1-ton Trailer	" "	
17	2½-ton	" "	
18	1-ton Trailer	" "	
19	2½-ton	" "	
20	1-ton Trailer	" "	
21	2½-ton	3rd Signal Co	
22	1-ton Trailer	" "	
23	2½-ton	" "	
24	1-ton Trailer	" "	
25	2½-ton	3d Tac Sq.	
26	1-ton	" "	
27	1½-ton	Div Hq Co	
28	1½-ton	" "	
29	1½-ton	3rd Signal Co	
30	1½-ton	" "	
31	2½-ton	3rd Signal Co	
32	2½-ton	3rd Signal Co	
33	2½-ton	Div Hq Co	
34	2½-ton	" "	
35	2½-ton	3rd Signal Co	
36	2½-ton	" "	
37	2½-ton	" "	
38	2½-ton	Photo Int Unit	
39	1/4-ton C&R	3rd Signal Co	
40	1/4-ton C&R	" "	
41	1/4-ton Trailer	" "	
42	3/4-ton	" "	
43	3/4-ton	" "	
44	1/4-ton C&R	3rd Tac Sq	
45	3/4-ton	Div Hq Co	
46	1/4-ton Trailer	" "	
47	3/4-ton	" "	
48	3/4-ton	10th Engr Bn	
49	1/4-ton C&R	C.I.C.	
50	1/4-ton Trailer	" "	
51	3/4-ton	3rd Signal Co	
52	1-ton Trailer	" "	
53	1/4-ton C&R	163rd Sig. Photo	
54	1/4-ton Trailer	" "	
55	1/4-ton C&R	" "	
56	1/4-ton Trailer	" "	
57	3/4-ton	3rd Signal Co	
58	1-ton Trailer	" "	
59	3/4-ton	Div Hq Co.	
60	1/4-ton C&R	" "	
61	1/4-ton Trailer	" "	

(Cont'd on page two)

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1653

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LOADING LIST - LST 221

(In order of priority for discharge)

(Con't from page one)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
62	1/4-ton C&R	Div Hq Co	
63	1/4-ton Trailer	" "	
64	1/4-ton C&R	Battle Order	
65	1/4-ton Trailer	" "	
66	1/4-ton C&R	C.I.C.	
67	1/4-ton Trailer	"	
68	1/4-ton C&R	P.W.I.	
69	1/4-ton Trailer	"	
70	1/4-ton C&R	Photo Int Unit	
71	3/4-ton	Div Hq Co	
72	1/4-ton Trailer	" "	
73	3/4-ton	3rd Sig Co	
74	3/4-ton	" "	
75	3/4-ton	3rd Div MP	
76	1/4-ton C&R	3rd Sig Co	
77	1/4-ton C&R	" "	
78	3/4-ton	Div Hq Co	
79	3/4-ton	3rd Sig Co.	
80	1-ton Trailer	" "	
81	3/4-ton	" "	
82	1-ton Trailer	" "	
83	3/4-ton	" "	
84	1-ton Trailer	" "	
85	1/4-ton C&R	3rd Div MP	
86	1/4-ton C&R	" "	
87	1/4-ton C&R	" "	
88	1/4-ton C&R	Civil Affairs	
89	1/4-ton C&R	" "	
90	1/4-ton C&R	3rd Signal Co	

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RECAPITULATION		
UNIT	IND	VEH
3rd Recn Trp	40	6
756th Tank Bn	20	4
3rd Chem. Bn	76	26
117 Recn Sqd	48	13
534th AAA Bn	35	8
Public Relations	6	4
Sea Bees	15	2
SLAM	16	4
Div Hq	3	
TOTAL	259	67

LST

ASN.....222.....

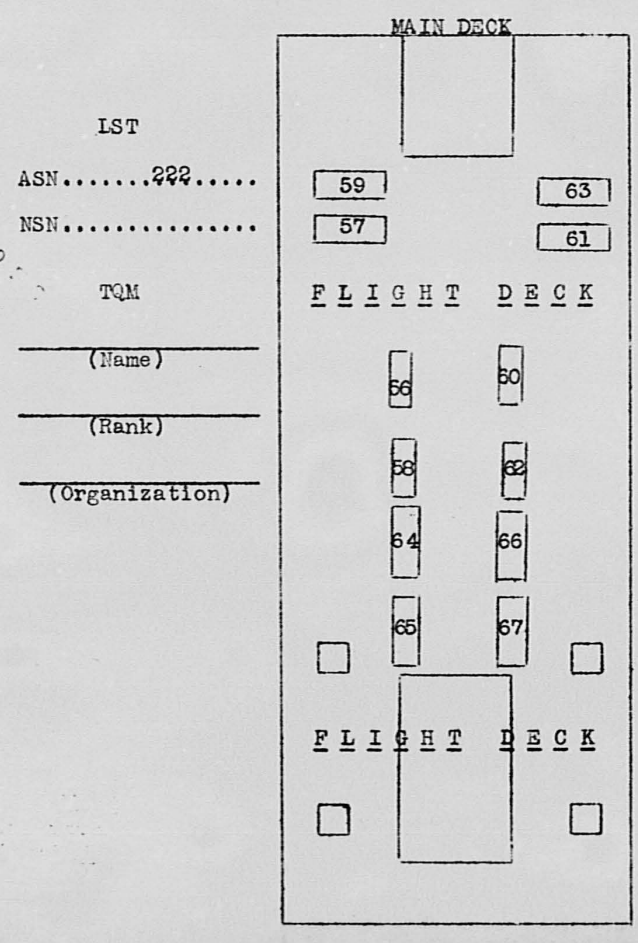
NSN.....

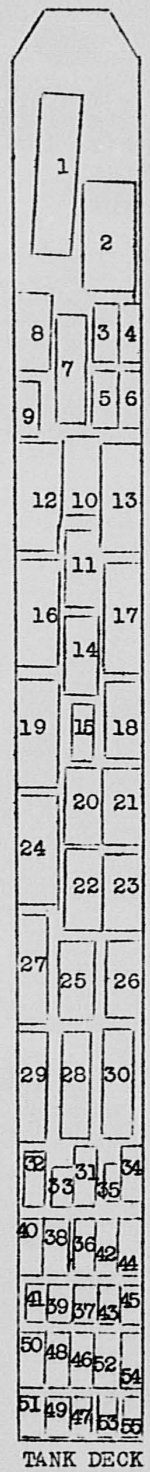
TQM

(Name)

(Rank)

(Organization)





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LOADING LIST - LST 222
(In order of priority for discharge)

PRIORITY	TYPE VEHICLE	UNIT	W-NUMBER
1	DUKW	Sea Bees	
2	D7 Dozer	" "	
3	1/4-ton C&R	3rd Ron Trp	
4	1/4-ton C&R	" "	
5	1/4-ton C&R	Public Relations	
6	1/4-ton C&R	" "	
7	2½-ton	117 Ron Sqd	
8	Tank (Lt)	" "	
9	M10 Trailer	" "	
10	Tank (Lt)	" "	
11	Tank (Lt)	" "	
12	M7 How	" "	
13	M7 How	" "	
14	Tank (Lt)	" "	
15	M10 Trailer	" "	
16	Tank (M)	756th Tank Bn	
17	Tank (M)	" "	
18	Tank (Lt)	117 Ron Sqd	
19	Tank (M)	756th Tank Bn	
20	M8 Car	3rd Ron Trp	
21	M8 Car	" "	
22	M8 Car	" "	
23	M8 Car	" "	
24	Tank (M)	756th Tank Bn	
25	M8 Car	117 Ron Sqd	
26	M8 Car	117 Ron Sqd	
27	2½-ton	3rd Ron Trp	
28	2½-ton	3rd Cml Bn	
29	2½-ton	" "	
30	2½-ton	Div. Hqs. Co	
31	1/4-ton C&R	Public Relations	
32	1/4-ton C&R	3rd Cml Bn	
33	1/4-ton Trailer	" "	
34	1/4-ton C&R	" "	
35	1/4-ton Trailer	" "	
36	1/4-ton C&R	" "	
37	1/4-ton Trailer	" "	
38	1/4-ton C&R	" "	
39	1/4-ton Trailer	" "	
40	1/4-ton C&R	" "	
41	1/4-ton Trailer	" "	
42	1/4-ton C&R	" "	
43	1/4-ton Trailer	" "	
44	1/4-ton C&R	" "	
45	1/4-ton Trailer	" "	
46	1/4-ton C&R	" "	
47	1/4-ton Trailer	" "	
48	1/4-ton C&R	" "	
49	1/4-ton Trailer	" "	
50	1/4-ton C&R	" "	
51	1/4-ton Trailer	" "	
52	1/4-ton C&R	" "	
53	1/4-ton Trailer	" "	
54	1/4-ton C&R	" "	
55	1/4-ton Trailer	" "	
56	1/4-ton C&R	534th AAA Bn	
57	40mm AA	" "	
58	1/4-ton C&R	" "	
59	40mm AA	" "	
60	1/4-ton C&R	" "	
61	40mm AA	" "	
62	1/4-ton C&R	" "	
63	40mm AA	" "	
64	3/4-ton	S.I.A.M.	
65	3/4-ton	" "	
66	3/4-ton	" "	
67	3/4-ton	" "	

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S E C R E T

Hqs 3rd Inf Div
G-4
13 July 1944

Code No 27

ANNEX #4 (ADM O)
TO FIELD ORDER # 12.

(Overlay to accompany this Administrative Order issued at later date).

1. SUPPLY:

a. Class I:

(1) Individual Reserve: To be placed aboard craft by PBS and issued to each individual by TQM:

1 Type "K", 1 Type "D" ration, 1 bottle of 24 Halazone, 2 packages of cigarettes, 1 bottle salt tablets.

(2) Unit Reserve: 1 Type "U" and 1 Type "C" in unit Kitchens.

(3) Supply Points:

(a) "D" Day: Beach Dump (Overlay).

(b) "D/1" and thereafter:

1. 3rd QM (Overlay) for 3rd Division with following attachments:

441st AAA AW Bn
601st T.D. Bn
756th Tank Bn.
3rd Chemical Bn

2. All Others: Beach Dump (Overlay).

(4) Automatic issue on informal request showing strength.

(a) Type "C" available "D" day.
(b) "C", and "K" available D/1 and thereafter.
(c) Type "U" (10-in-1) available D/2 and thereafter.

b. Class II & IV:

(1) Quartermaster:

(a) Supply Point:
1. 3rd Inf Div: 3rd QM Co (Overlay).
2. All others: Beach Dump.
(b) Emergency issues available "D" day.
(c) Other supplies: Available D/2.
(d) Individual clothing: See Appendix No. 5.
(e) Individual Reserve: To be issued to all units by 3rd Div QM prior to staging:

1 2 oz bottle mosquito repellent per ind.
1 2 oz can insect powder per ind.
1 Pack toilet paper per ind.
1 Protective cover, Ordnance (for all small arms to and including Cal..50, M/G).
1 ea Brassard, American, w/safety pins (not to be worn until after embarkation) per ind.

(2) Signal:

(a) Supply Point:
1. All units except Beach Group - 3rd Signal Company (Overlay).
2. Beach Group - Beach Dumps (Overlay).
(b) All supplies and limited equipment replacements D Day.

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(c) Other supplies: Build up from D/1 on.
(d) Method: Army instructions require that requisitions for all replacements other than on an exchange basis be submitted to Army for approval. To avoid delays in replacements every effort will be made to recover damaged or destroyed equipment for presentation to Signal Supply Service.

(3) Ordnance: (See Appendix #8)

(4) Medical:

(a) Individual Reserve: To be placed aboard craft by PBS and issued to troops by craft TAM's:
1. Packet of 7 atabrine tablets per ind.
2. Motion sickness capsules.
3. Mechanical prophylaxis (3 per ind).
(b) Supply Point:
1. 3rd Inf Div: 3rd Medical Bn (Overlay).
2. All Others: Beach Dump (Overlay).
(c) Litters and initial stock of medical and surgical supplies available "D" day.
(d) Other supplies: Available D/1.

(5) Engineer:

(a) Supply Point:
1. 3rd Inf Div Reinforced (less Beach Group): 10th Engr Bn (Overlay).
2. Beach Group: Beach Dumps.
(b) Opens D/1.
(c) Units will draw 2 Concertinas of barbed wire per 2½-ton truck or larger going on LCT's or LST's in the assault. Concertinas will be placed on front of vehicle between bumper and radiator and so carried until arrival in debarkation assembly areas. Concertinas may be turned in to Engineer Supply or retained by unit.
(d) All ammunition 2½-ton trucks will carry one (1) bale of sandbags.

(6) Chemical:

(a) Supply Point:
1. 3rd Inf Div: 3rd QM Co (Overlay).
2. All Other: Beach Dumps (Overlay).
(b) Limited supplies available D/1.
(c) Gas Masks: Gas masks will be carried on the individual by all units. Assault masks will be issued to foot troops of assault units who will keep light weight masks in QM train. Light weight masks carried by all other units will be waterproofed, using kit, Gas Mask, Waterproofing.
(d) The following items of individual protective equipment will be carried in the gas mask carrier:

1 Cover, protective, ind. (QM issue)
1 Tube, ointment, protective
4 Eyeshield, antigas

c. Class III:

(1) Unit Reserve:

(a) Vehicle tanks 90% full.
(b) 5 gallon reserve cans full.
(c) 5 1-quart cans engine oil per vehicle except tanks. 1 or more 5 gallon cans per tank. To be issued by 3rd Inf Div QM to all units on requisition.

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(2) Supply Point:

(a) "D" Day: Beach Dumps (Overlay).
(b) "D/1" and thereafter.
1. 3rd QM (overlay) for 3rd Division with following attachments:

441st AAA AW Bn
601st T.D. Bn.
756th Tank Bn
3rd Chemical Bn

2. All Other: Beach Dump (Overlay).

(3) Exchange of empty for full 5 gallon cans.

d. Class V:

(1) With Units: Basic loads. Extra bandolier per Infantry rifleman.
(2) The following basic load of CWS grenades will be carried by vehicles and weapons:

	Grenade, Hand, WP, M15.	Grenade, Incend., M14	Grenade, Colored, Smoke, M16 or M18 (3 assorted colors)	Grenade, Smoke, HC M8
Per fuel consuming combat vehicle	4	2	3	2
Per fuel consuming vehicle	2	2	3	2
Per gun, 37mm, 40mm, or 57mm		2		
Per gun or howitzer 75mm, 76mm, 3 in, 90mm or 105mm		3		
Per gun or howitzer 4.5 inch or larger		6		
Per Mortar (except 60mm)		1		
Per truck 1/4-ton in Recn unit	2	2	3	2

(3) Other instructions: See Appendix #8.

e. Water:

(1) D Day:

(a) Individual Reserve: Full canteens.
(b) Unit reserve: Full T/E water cans in unit kitchens.
(c) Supply Point: Beach Dump (Overlay).
(d) Method: issue on request in 5 gallon cans (Controlled by 3rd QM Co).
(e) Limitations: One quart per man.

(2) D/1 and thereafter:

(a) Supply Point: Engineer Water Points (Location to be announced).
(b) Method: Refill of empty cans.
(c) Limitations: One gallon per man per day until strict water discipline rescinded by this Hqs.

(3) Halazone tablets: Available at Class I Dumps.

2. EVACUATION:

a. Casualties:

(1) Personnel:

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(a) Collection:
1. H to H/4: Casualties in unit collecting pools.
2. H/4 to H/6: By units to Beach Collecting-Clearing Company.
3. H/6 onward: By units to Division Collecting Companies.
4. Location of Collecting Co's will be reported.
(b) Clearing: Clearing Station (Overlay) opens H/14.
(c) Field Hospital: Opens H/6 (Overlay).
(d) Evacuation Hospital: Opening to be announced.

b. Burial:

(1) Collecting Point: 3rd QM Co (Overlay).
(2) Cemetery: (Overlay).

c. Salvage:

(1) Ammunition, brass and ammunition cases: To Ammunition Dump (Overlay).
(2) All Other: To 3rd QM Co (overlay).
(3) Location of captured dumps will be reported.

3. TRAFFIC:

a. Circulation:

(1) Main Supply Route (Overlay).
(2) Two way traffic except where marked.

b. Control:

(1) By units in unit areas.
(2) By Beach Group in Beach Area. Traffic in Beach Area will be limited to the absolute minimum.
(3) Traffic Control Posts (Overlay).

c. Restrictions:

(1) Blackout sunset to sunrise.
(2) Commandeering of U.S. Army or Navy transportation is absolutely forbidden and will be punished by the severest penalty.

d. Construction and Maintenance of Routes:

(1) Beach Area: Engineer Beach Group.
(2) Unit Areas: Units, utilizing attached Engineers.
(3) All Other: 10th Engr Bn.

4. LOCATION OF SERVICE TROOPS: (Overlay).

5. PERSONNEL: See Appendix #7.

6. MISCELLANEOUS:

a. Rear Boundary: Initially, shore line.

b. Reports:

(1) S-1 and S-4 Reports and Morning Report Extracts (midnight to midnight) to be at 3rd Inf Div Hqs by 0600B beginning D/1.
(2) Ammunition Expenditure Reports (1800 to 1800) to be at DAO by 2000B beginning D Day (Ammunition Form V will be used).

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(3) Material Status Reports: To be prepared as of 15 1200B monthly. Detailed instruction will be published in Administrative Instructions.

(4) Weekly G-4 Periodic Reports:

(a) 3rd Infantry Division Units: Prepared by this Headquarters.

(b) All other units: To be submitted direct to Army in one copy only on standard form to reach Army by 1800B Monday. (Period 0001B Sunday to 2400B Saturday).

c. Kitchen Trains:

(1) Kitchens will be loaded on follow up convoy.

d. Location of CP: (Overlay).

e. Other Administrative Matters:

(1) Messing:

(a) LST, AK, & AP - Type "B" rations furnished by Navy. Served in ship's mess gear.

(b) Liberty Ships (M/T)- Same as LST except that ship's gear is not available. Individuals mess kits will be used.

(c) LCI - - - - - - Type "C" augmented by coffee, milk, sugar, bread & jam. To be placed aboard craft under supervision of Div QM. Facilities for heating & utensils furnished.

(d) LCT - - - - - - Same as for LCI. One field range cabinet will be loaded aboard each LCT in a trailer by designated units to provide cooking facilities enroute.

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Cmdg

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APPENDICES:
1 - Overlay (To be published).
2 - Preparation for Embarkation (Published & distributed).
3 - Waterproofing instructions - Vehicles & Weapons (Published and distributed).
4 - Waterproofing instructions - Signal Equipment (To be published).
5 - Uniform, clothing, and Individual Equipment (Published and distributed w/1 change).
6 - Instructions to TQM's (Published and Distributed).
7 - G-1 Instructions (To be published).
8 - Ordnance Instructions (To be published).

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Auth: CG, 3rd Div Reln
*Init: [illegible] *
*Date: 1 August 1944 *
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HQS 3RD INF DIV
G-4
NAPLES, ITALY

APPENDIX #1, ANNEX #4 (Adm O)
TO ACCOMPANY FIELD ORDER # 12.

ADMINISTRATIVE OVERLAY

See Annex #13 b (Engineer Beach Establishment overprint).

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Destroy all others.

Hqs, 3rd Inf Div
G-4
7 July 1944

APPENDIX #2, ANNEX #4 (Adm O)
TO FIELD ORDER #12.

PREPARATION FOR EMBARKATION

1. General Plan: The plan for loading will call for a light assault scale loading on landing craft and landing ships, with all service elements other than the absolute minimum to be loaded on ocean going ships.

a. Port facilities necessitate that this Division and attached elements, less personnel, be loaded on the ocean going ships several weeks prior to sailing.

b. The absolute minimum follow-up rear link will be left behind. The Administrative Center, and remaining parts of units, will be under the control of the Embarkation Officer who will be designated Commanding Officer, Follow-up Troops. Radio communication will be maintained between the Far Shore and Follow-up Troops.

2. Baggage:

a. All units other than Infantry: Scale down to 4-in-1 barracks bags (see Appendix #5). 4-in-1 bags will be loaded on transportation being loaded on ocean going ships in so far as possible. They may be carried aboard OGS (Ocean going ships) by troops if desired. In no event will baggage be stored on this shore.

b. Infantry units only: All individual or group barracks bags in Infantry Regiments are to be stripped down immediately and will no longer be permitted.

(1) Individual clothing and equipment in Infantry Regiments will be limited to the following: (See also Appendix #5)

(a) Clothing and equipment on the soldier.
(b) Infantry rolls.
(c) Infantry Unit Baggage. To consist of clothing reserve carried under Regimental Control in Kitchen Train trailers.
(d) Fatigues and service shoes to be worn until immediately prior to embarkation and then turned in to QM salvage.

(2) Ten (10) 2½-ton trucks will be provided each Regiment from the 3rd QM Co for loading Infantry rolls prior to embarkation. These trucks will be loaded on LST's under QM control. Two guards per truck will be furnished by Infantry Regiments. Trucks will be unloaded in Division Quartermaster Area after landing.

3. Messing:

a. Prior to embarkation of troops: The necessity for early loading of the vehicles of service elements will disrupt normal messing procedure.

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(1) Units other than Infantry who will have vehicles loaded on landing craft or landing ships: Units will load the bulk of their kitchens on the vehicles being loaded on OGS. A vastly reduced element of the kitchens will be used until time of troop embarkation to prepare a hot ration and then placed on transportation being loaded on landing craft and landing ships.

(2) Infantry Regiments: Complete kitchens will be kept operating by Infantry Regiments until embarkation of troops. Infantry kitchen trucks without trailers will remain to be sent in a follow-up.

(3) Units loading completely on OGS: Complete kitchens will be loaded on unit transportation prior to scheduled time of loading of transportation on ships. This will leave these units completely without messing facilities. Minimum facilities for feeding hot rations prior to troop embarkation will be provided by PBS thru this Headquarters.

b. After Embarkation:

(1) LST's & OGS's: Normal "B" rations will be prepared by Navy (Army assistance as cooks, cooks helpers, etc., will be provided Navy as requested).

(2) LCI's: Heated "C" rations and coffee to be prepared by Navy (Army assistance will be provided as requested).

(3) LCT's: One (1) complete field range cabinet and one (1) Can, Corrigated, 32 gallon, will be placed aboard each LCT for heating "C" rations, making coffee, cutting bread, etc. Above equipment and at least one cook will be furnished by units as designated in Loading Diagrams (Annex #3 e to FO #12).

4. Marking of Equipment:

a. No special markings required.

b. Unit identification will be removed as directed by letter, Headquarters, 3rd Inf Div, Subject: "Security" dated 6 July 1944. Division shoulder patches will be held so that they may be replaced on shirts after embarkation.

5. Passenger Sailing Lists: Will be prepared. (Note: This changes previous instructions). Detailed instructions will be issued by the AG, Third Infantry Division.

6. Waterproofing (See Appendix #3 & #4, Annex #4, to FO #12):

Waterproofing will be required for all vehicles and guns of 37mm and larger being loaded on the Assault Convoy.

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Hqs 3rd Inf Div
G-4
30 June 1944

APPENDIX 3, ANNEX #4 (ADM O)
TO FIELD ORDER #12

WATERPROOFING INSTRUCTIONS
VEHICLES AND WEAPONS

1. Instructions:

a. Personnel to Attend:

(1) Maintenance Officers and Motor Sergeant of each Regiment, Battalion, Separate Battery, Company or Troop, and Cannon Company.

(2) Enlisted Mechanics of Maintenance Section.

10 per Regiment
5 per Battalion
2 per Separate Company, Battery or Troop and Cannon Company

(3) Battery mechanic or equivalent, 1 per firing battery, 1 per company w/57mm or larger weapon.

b. Equipment:

(1) Notebook and pencil

(2) 703rd Ordnance Co (LM) will furnish Instruction Sheets.

(3) Units to furnish vehicles and weapons as shown in schedule, par. 1e below. All vehicles and weapons will be thoroughly cleaned and properly lubricated.

c. Place: 703rd Ordnance Co. (LM) located at 104520 (except motion picture).

d. Time: Report at 0800 on day scheduled (except motion picture). Units will provide for noon meal.

e. Schedule:

2 July 1944 - All Items

Division Units: Motion picture at Cinema S. Maria (121529) at 1330 hours.
Non-division units: Motion picture at Cinema S. Maria (121529) at 1430 hours.

4 July 1944 - Half-Track vehicles

441st AAA (AW) Bn	- Carriage, motor, multiple gun, M13 & M15.
601st T. D. Bn	- Car, Half-Track, M3.
756th Tank Bn	- None.
3rd Recon. Trp	- Car, Armd, Lt. M8
9th, 10th, 39th, 41st FA Bns	- Carriage, motor, 105mm How, T-19 from 39th F.A. Bn.

5 July 1944 - Full-Track vehicles

601st TD Bn	- Carriage, motor, 3" gun, M10
756th Tank Bn	- Tank, light, M5, and Tank, Medium, M4

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5 July 1944 - Full-Track vehicles (Cont'd)

Infantry Cannon Co's - Carriage, motor, 75mm How. M8, from 15th Infantry.
Carriage, motor, 105mm, M7, from 15th Infantry.
Howitzer, 105mm, M3, from 15th Infantry.
36th F. A. Bn. - 155mm Gun, w/prime mover.
69th Arm'd F.A. Bn - None.

6 July 1944 - General Purpose Vehicles

441st AAA (AW) Bn	- None.
756th Tank Bn	- None.
Hq & Hq Co, 3d Div	- Truck, ¼-ton, 4x4, C&R.
3rd Recon. Trp	- None.
3rd Signal Co.	- Truck, 3/4-ton.
3rd QM Co	- Truck, 2½-ton.
703rd Ord. Co	- None.
Prov. Pack Btry	- How., (Pack) 75mm, M1.
Hq Btry, Div Arty.	- None.
3rd Medical Bn	- Truck, 3/4-ton, Ambulance.
3rd Chem. Bn	- None.
1st Bn, 343rd Engr Regiment	- None.
3373 QM Truck Co	- Truck, 2½-ton.
3374 QM Truck Co	- None.

7 July 1944 - General Purpose Vehicles

7th Infantry	- None.
15th Infantry	- Truck, ¼-ton, 3/4-ton, 1½-ton, 2½-ton, Gun, 57mm AT.
30th Infantry	- None.
9th F.A. Bn.	- Truck, 4-ton, 6x6, and How., 155mm.
36th F.A.Bn	- None.
634th F.A. Bn	- None.
69th Arm'd F.A. Bn	- None.
10th, 39th, 41st Bns	- Truck, 2½-ton 6x6, & How. 105mm M2, from 39th F. A. Bn.
36th Engr. Regt.*	- None.
10th Engr. Bn	- None.
72nd AAA Gun Bn (Mbl)	- 90mm gun w/prime mover.
536th AAA AW Bn (Mbl)	- 40mm gun w/prime mover.

*Plus beach group attachments not listed above as designated by 36th Engineer Regiment.

2. Actual Waterproofing:

a. Responsibility - Unit Commanders.

(1) Equipment to be water proofed will be deadlined, thoroughly cleaned and properly lubricated, gas tanks 90% full, put in first class mechanical condition, waterproofed, and moved only on order of unit commander: Each vehicle will carry sufficient oil to effect a complete change of crankcase oil. Oil will be drawn in advance in one (1) and five (5) quart containers by all units from 3rd QM Co.

b. Issue of Material: Automatic by 703rd Ordnance Company to all units and attached units, 3rd Infantry Division (except oil for crankcase change, see par. 2a above).

c. Procedure: Unit equipment will be waterproofed by unit personnel under supervision of unit maintenance personnel.

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(1) General Purpose Vehicles - In Unit Bivouac Areas.

(2) Half-track Vehicles - In Unit Bivouac Areas. Divisional Units requiring assistance on half-track vehicles will call on the 703rd Ordnance Company, attached Units on their supporting Ordnance Companies.

(3) Full-track Vehicles - Divisional Units will secure assistance from 703rd Ordnance Company, attached units from their supporting Ordnance Companies.

(4) Final Check: Final waterproofing, closing of vents, touchup, etc., will be made by drivers and assistant drivers in Embarkation Staging Areas. Materials required for touch-up will be made available in said areas by 703rd Ordnance Company.

3. De-waterproofing:

a. It is the responsibility of the organization commander that when vehicles are landed over the beaches they will be de-waterproofed of "Must Items" immediately by the driver. If "Must Items" are not taken care of immediately, serious damage will be caused by driving the vehicle.

b. De-waterproofing "Must Items":

(1) Completely unseal booster cylinder intake, or compressor (air brakes) intake.

(2) Replace air cleaner unit if removed and refill with proper oil.

(3) Unseal distributor.

(4) Unseal battery vents.

(5) Unseal crankcase filler tube cap breather.

(6) Unseal crankcase ventilator outlet pipe.

(7) Unseal vents on differentials, transfer and transmission cases.

(8) Crankcase and all housings should be checked for water; if water is found, change lubricant immediately.

c. All waterproofing material, such as asbestos grease, flexible tubing, soft steel tubing, etc., removed at de-waterproofing, will be saved and turned in to Ordnance Medium Maintenance Cos. The conservation of waterproofing materiel is the responsibility of the unit commander.

d. Complete de-waterproofing will be accomplished as soon as the tactical situation permits by the driver of the vehicle at established de-waterproofing points. Only in those cases where this is tactically impossible will vehicles be de-waterproofed elsewhere, and then only in central areas designated by unit commanders, who will be responsible for the prompt evacuation of the salvage materials to the established Ordnance de-waterproofing areas.

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S E C R E T

Hqs 3rd Inf Div
G-4
9 July 1944

CHANGE #1 TO APPENDIX #5,
ANNEX #4 (Adm O) TO FIELD ORDER #12.

TABLE OF EQUIPMENT

INDIVIDUAL CLOTHING AND EQUIPMENT

COLUMN #1 - ITEM
COLUMN #2 - ON INDIVIDUAL (worn or in pack)
COLUMN #3 - INDIVIDUAL ROLL
COLUMN #4 - (4-in-1) BARRACK BAG
COLUMN #5 - INF UNIT BAGGAGE
COLUMN #6 - SALVAGE PRIOR TO EMBARKATION.
COLUMN #7 - REMARKS

1	2	3	4	5	6	7
x x x x x						
Jackets, H. B. T.	1c		1c		1	
Cap, garrison			1a	1b		
Necktie			1a	1b		
x x x x x						

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S E C R E T

Hqs 3rd Inf Div
G-4
30 June 1944

APPENDIX # 5, ANNEX #4 (Adm O)
TO FIELD ORDER #12.

TABLE OF EQUIPMENT

INDIVIDUAL CLOTHING AND EQUIPMENT

COLUMN #1 - ITEM
COLUMN #2 - ON INDIVIDUAL (worn or in pack)
COLUMN #3 - INDIVIDUAL ROLL
COLUMN #4 - (4-in-1) BARRACK BAG
COLUMN #5 - INF UNIT BAGGAGE
COLUMN #6 - SALVAGE PRIOR TO EMBARKATION.
COLUMN #7 - REMARKS

1	2	3	4	5	6	7
Insignia, shoulder, sleeve	2		1a	1b		a. Except Infantry.
Shirt, wool, OD	1		1a	1bd		b. Infantry only.
Trousers, wool, OD	1		1a	1bd		c. Cooks & mechanics only.
Trousers, H.B.T.	1c		1c		1	d. 1/4 per indiv. in Infantry only.
Belt, web, Waist, M1937	1					
Drawers, cotton, shorts	1	1	1a	1b		
Gloves, Horsehide, Riding, Unlined	1					
Handkerchiefs, cotton	2	1a	1a	2b		
Helmet, steel, comp., M1	1					
Insignia, Chevron	2		1a	1b		
Jacket, field, or combat	1					
Jacket, H.B.T.					1	
Laces, Shoe pair	1	1				
Leggings, can., d/mtd pair					1	
Raincoat, d/mtd	1a	1b				

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1		2	3	4	5	6	7
Shoes, combat	pair	1			1c		c. Retain odd size service shoes w/ 1 pair leggings
Sock, wool, light	pair	2	2	2a	2b		
Strap, shoulder, MP		1					Until exhausted.
Undershirt, cotton		1	1	1a	1b		
Undershirt, wool			1				
Brassard, MP (only)		1					
Brassard, American Flag		1					
Laces, Loggin	pair					2	
Caps/hats, HBT						1	
Bag, barracks				1a			
Bar, Insect, field			1				
Blanket, wool, OD			2				
Can, meat		1a			1b		
Canteen		1					
Cup, canteen		1					
Fork		1a			1b		
Headnet, Mosquito		1					
Knife		1a			1b		
Necklace, Ident., tag		1					
Pin, tent, shelter			5				
Pole, tent, shelter			1				

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1	2	3	4	5	6	7
Pouch, 1st Aid Packet	1					
Roll, Bedding, waterproof		1				per Officer & W.O.
Spoon	1					
Tag, Identification	2					
Tent, shelterhalf		1				
Toilet Articles, set	1					
Towel, Bath		1				
Towel, Huck	1		1a	1b		
Belt, cartridge (or Pistol)	1					
Cover, Canteen	1					
Pouch, Pistol, Clip	1					as per T/E
Pouch, Carbine, Clip	1					as per T/E
Pouch, mag, 5 pocket TSMG	1					as per T/E
Cover, Protective	1	1				
Tool, Intrenching	1					
Cover, weapon, protective	1					according to weapon
Gloves, mosquito				1		1 pr per 8 indiv.
Bag, sleeping		1a		1b		
Haversack (complete)(or Field Bag)	1					
Personal, effects			1			

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1		2	3	4	5	6	7
Bag, Personal, Effects				1			
Powder, Insect	pack	1					
Repellent, Insect	btle	1					
Paper, toilet	roll	¼			3/4		
Tablets, Halazone	btle	1					
Tablets, Atabrine (7)	pack	1					
Tablets, Salt	pack	1					
Ration, "K"		1					
Ration, "D"		1					
Cigarettes	pack	2f					f. Gratuitous issue. Additional as desired and available.

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S E C R E T

Hqs 3rd Inf Div
G-4
30 June 1944

APPENDIX #6, ANNEX #4 (Adm O)
TO FIELD ORDER # 12.

INSTRUCTIONS TO T&M'S
READ THIS CAREFULLY!!

I - LCI
II - LCT & LST
III - XAP, AKA & M/T

I - INSTRUCTIONS TO LCI (L) T&M'S

I PRIOR TO EMBARKATION:

1. You have been designated as a Third Infantry Division T&M on an LCI (L) or Landing Craft Infantry - Large. This is a full time job prior to and during embarkation. You are responsible for all troops scheduled to be loaded on your craft. You cannot wait until the day of loading and then expect to accomplish your job.

2. The Division Embarkation Officer is in charge of all loading for the THIRD INFANTRY DIVISION. The Assistant Embarkation Officer is authorized, in the absence of the Embarkation Officer, to make decisions on any questions pertaining to Embarkation.

3. The Division maintains a Liaison Officer with the Naval Command. All questions affecting the Navy are handled by this officer. Communication with the Liaison Officer will be through the Embarkation Officer.

4. A Division Staff Officer will be in charge of the troop assembly area. This officer will supervise the activities of all T&M's at his loading area and maintain continuous liaison with the Embarkation Officer.

5. You will secure from your unit two NCO assistants.

6. Report to the Division Staff Officer. You must keep in touch with this officer from now until you have finished loading. Through him you will be kept advised of any changes in personnel for your craft, and the specific Navy Craft on which you load. (The Army Serial Number for your craft is an arbitrary number assigned for planning and control purposes, and will not be related to any particular Navy Craft until the final Naval Craft Assignment is announced).

7. Secure loading list for your craft from the Division Staff Officer.

8. Visit each organization which will place personnel on your ship. Check with the organization commander to see that he understands when his personnel are to be in the assembly area.

9. Prior to loading an LCI, the troops must be divided into groups according to the compartment they will occupy. Consult with CO Troops and establish this breakdown.

10. Check all pertinent orders regarding the rations personnel are to bring aboard and see that the organization commander understands this.

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11. Find out from the Division Staff Officer if any special equipment is to be placed on the dock for loading. Arrange stowage with the ship's Captain and be present when it is placed aboard.

12. With your assistants go over the route which will be used by the personnel from the assembly area to the vessel.

13. Advise the Commanding Officer of your vessel of the number of troops to be placed aboard and the quantity of rations to be stowed. Find out what details the ship will require from the troops to assist in cleaning and messing. Notify the CO Troops of these requirements.

II EMBARKATION:

1. Prior to actual embarkation you will station one assistant with a list of personnel by organization at the assembly point for your craft. This assistant will check to see that all personnel are present and properly divided by the compartment groups. When directed by Division Staff Officer in Charge at the Assembly Area, this assistant will load the column to the vessel.

2. The Third Division Quartermaster is responsible for loading rations aboard the LCI's. Check with the Division Staff Officer in Charge of your area and obtain a list of ration items that should be put aboard your craft. Check to see that the rations are aboard in proper quantity and stowed in an accessible place agreeable to the Navy.

3. As personnel board the craft you will collect the embarkation cards. Each man must have an embarkation card which shows his name, rank, serial number, organization, and craft number (ASN). You must obtain spare cards from the Division Staff Officer in Charge to be made out on the spot, because some men will lose theirs. After all personnel are loaded, mark the stack of cards with your naval craft type and number and turn the cards over to the AG representative at the dock. No personnel will be permitted to leave the craft after they have been checked aboard. Station a sentry on the gangway to make certain this is complied with.

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II - INSTRUCTIONS TO LCT & LST T&M'S

I PRIOR TO EMBARKATION:

1. You have been designated as a Third Infantry Division Craft T&M. This is a full time job prior to and during embarkation. You are responsible not only for your own units' vehicles going on your craft, but all vehicles and personnel scheduled to be loaded on your craft. You can not wait until the day of loading and then expect to accomplish your job. Prior to the day your vehicles are assembled for loading, you must be completely organized and have your plans laid.

2. Division Embarkation Officer is in charge of all loading for the Third Division. The Assistant Embarkation Officer is authorized, in the absence of the Embarkation Officer, to render decisions on any question pertaining to embarkation.

3. The Division maintains a Liaison Officer with the Naval Command. All questions affecting the Navy are handled by this officer. Communication with the Liaison Officer will be through the Embarkation Officer.

4. A Group T&M will be designated for each group of craft. This officer will supervise the activities of all T&M's on his craft and maintain continuous liaison with the Assistant Embarkation Officer.

5. You will secure from your unit as assistants, two commissioned or non-commissioned officers.

6. Report to your Group T&M. You must keep in touch with your Group T&M from now until you have completed loading. Through him, you will be kept advised of any changes in vehicles or personnel for your craft, and the specific Navy Craft on which you will load. (The "Army Serial Number" for your craft is an arbitrary number assigned for planning and control purposes, and will not be related to any particular Navy Craft until the final Naval Craft Assignment is announced). Take up your problems and unforseen difficulties with your Group T&M.

7. Secure loading list for your craft (which will be prepared by the Planning Board) from your Group T&M.

8. Even before you know which specific craft you will have, visit the various embarkation points and study your type of craft. Notice the differences between the various LST's and LCT's. There are two classes of LCT - Mk III and VI. In the Mk III the deckhouse extends across the after end of the craft. In the Mk VI the deckhouses are arranged along the sides having the centerline clear for the full length of the vessel. There are also numerous variations in the top deck arrangement of the LST's. Some have ramps instead of elevators and many have additional AA armament. Watch practice loadings. Other than actually loading yourself, this is the best training you can do. Talk to ships officers. They will give you advice and hints on loadings.

9. Visit each organization concerned and physically check each vehicle to be loaded on your craft. List the Registration Numbers ("W-Numbers").

10. Check with the organization commander and see that he and the vehicle driver understand when the vehicle leaves for the Division Assembly Area and the route to that area. You will not be responsible for the physical movement of the vehicles to the assembly area, but you must insure that the instructions are clear to the units.

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11. Secure from the 10th Engineer Battalion, Division Supply Section, buff camouflage paint for marking your vehicles. You furnish a No. 10 can for the paint. Engineer Supply will furnish you with a brush and instructions. Your Group T&M will notify you when this is to be picked up.

12. With camouflage paint mark each vehicle (on windshield or bumper) with craft number (Army Serial Number), Embarkation Point, and vehicle priority number (from your craft loading list). Example:

LST - ASN - 201
NAPLES NO. 1

13. At least one day prior to the date your vehicles are to arrive at the assembly area, report to the Third Division Staff Officer in charge of your loading area. He will give you instructions as to where your vehicles are to assemble, and after assembling, he will coordinate your actual loading.

14. At least two hours prior to the arrival of your vehicles at the assembly area, you and your two assistants will be at the assembly area at the sign indicating your craft load.

15. As vehicles arrive from Unit Areas, place them in inverse order of priority in rear of craft loading sign.

16. You are now on 24 hour duty at your loading point. You or your assistants will be continually with your craft load. You will not leave the area except when granted permission by the Third Division Staff Officer in charge of your area.

17. See that each driver performs final waterproofing on his vehicle. You must personally check each vehicle. 703rd Ordnance Company will have representatives in each Division Assembly Area with necessary waterproofing materials for final touch-up.

II EMBARKATION:

1. At proper time on loading day, station yourself with one assistant at the actual loading point. Leave other assistant with vehicles at the Division Assembly Area. This assistant will act as dispatcher, and when directed by Division Staff Officer in Charge of your loading area, will send vehicles to loading point in reverse order of priority for discharge.

2. As vehicles arrive at loading point you will place them aboard craft in proper order.

a. Remember, DUKW's are loaded for amphibious discharge, so must be at bow of craft with nothing in front to block their discharge.

b. If your LST has an elevator, the maximum load capacity for main (top) deck is 10 tons. Thus, a half-track, or a loaded 2½-ton can go up the elevator, but tanks, 4-ton trucks, and heavier can not. The size of the elevator will not permit a 2½-ton truck with superstructure ("Wrecker") to go up the elevator.

c. The four elevator guide posts are removable. After loading the main (top) deck, have the posts removed to provide more room on the tank (lower) deck.

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d. Some skippers will permit you to load vehicles on the hatch and the elevator. Some will not. Find out in your case before it is too late.

e. The skipper will force you to provide a "fire aisle" 3 feet wide down one beam of the main (top) deck. Therefore, keep one side of the deck free of vehicles three feet from the side.

f. For loading 1-ton and ¼-ton trailers, keep a jeep free to jockey them onto the craft and into position. Don't try to have a prime mover back the trailer on; it takes too long. Two jeeps with jeep trailers can go up the elevator without uncoupling.

3. The Third Division Quartermaster is responsible for loading rations aboard LCI's, LCT's, and LST's. Check with your Division Staff Officer in charge of your loading area and obtain a list of the ration items that should be put aboard your craft. Then check with the ship's Officers to insure that these rations are aboard and are served your men. Remember that it is necessary to guard these rations after loading to prevent pilferage.

4. After your vehicles are loaded, get all men off the craft and then check your personnel on. Have a check of the ship made to insure that all personnel are actually ashore. Each man must give you an embarkation card which shows his name, rank, serial number, organization, and craft number (ASN). You must obtain spare cards from the Group T&M to be made out on the spot, because some men will lose theirs. After all personnel are loaded, mark the stack of cards with your naval craft type and number, and turn the cards over to the NCO representative at the dock. No personnel will be permitted to leave the craft after they have been checked aboard. Station a sentry on the gangway to make certain this is complied with.

III DURING THE VOYAGE:

1. Act as liaison officer between Commanding Officer of Troops (the senior officer or an officer designated by him) and the Naval Commander of the Craft.

2. Look continually to the welfare of the men and care of vehicles and weapons.

3. Prior to debarkation ascertain that each driver has checked the waterproofing of his vehicle and made all necessary corrections. Instruct every driver to put his vehicle in low range with front wheels engaged before landing, to leave the ramp slowly but keep moving, and not to shift until off the beach.

IV DEBARKATION:

1. Remain with your craft until it is completely discharged.

2. Then sign name, date, and hour to your loading list.

3. Report to the officer in charge of the beach (36th Engineer Regiment) or his representative and give him signed loading diagram.

4. Report to your commanding officer for duty.

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III - INSTRUCTIONS TO M.P., A.M., AND M/T T&M's

I - PRIOR TO EMBARKATION:

1. You have been designated as a Third Infantry Division T&M. This is a full time job prior to and during embarkation. You are responsible for all vehicles and personnel going aboard your ship. Prior to the day on which your vehicles and personnel are assembled you must have a complete understanding of the planned stowage of all items in the ship, of the actual physical make-up of the vessel, and of the loading procedure to be followed.

2. The Division Embarkation Officer is in charge of all loading for the Third Division. The Assistant Embarkation Officer is authorized, in the absence of the Embarkation Officer, to make decisions on any question pertaining to embarkation.

3. The Division maintains a Liaison Officer with the Naval Command. All questions affecting the naval command are handled by this officer. Communication with the Liaison Officer will be through the Embarkation Officer.

4. The vessels to which you will be assigned are large ocean-going ships. The M/T is more commonly known as the Liberty. Stores, vehicles, and approximately 300 troops will be carried on each of these vessels. The A.M. is a Navy Cargo vessel which will carry much the same load as the Liberty but probably only 200 troops. The A.P is primarily a troop transport with a personnel capacity of 1500.

5. You will secure from your unit as assistants four enlisted men, preferably non-commissioned officers.

6. Even before you know which specific ship you will have, visit the various embarkation points and study your type of craft. Watch the loading operation. Talk to ship's officers. They will give advice and hints on loading.

7. Check with the organization commander and see that he and the vehicle driver understand when the vehicle leaves for the Division Assembly Area and the route to that area. You will not be responsible for the physical movement of the vehicles to the assembly area, but you must insure that the instructions are clear to the units.

8. Secure from the 10th Engineer Battalion Division Supply Section, buff camouflage paint for marking your vehicles. You furnish a number 10 can for the paint. Engineer supply will furnish you with a brush and instructions.

9. With camouflage paint mark each vehicle (on windshield or bumper) with craft number (Army Serial Number), embarkation point, and vehicle priority number (from your vessel loading list).

EXAMPLE

ASN -164
MAPLES NO. 1

10. At least one day prior to the date your vehicles are to arrive at the assembly area, report to the Third Division Staff Officer in charge of your loading area. He will give you instructions as to where your vehicles are assembling, and after assembling, he will coordinate your actual loading.

11. At least two hours prior to the arrival of your vehicles at the assembly area, you and two assistants will be at the assembly area at the sign indicating your vessel load.

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12. As vehicles arrive, place them in inverse order of priority in rear of vessel loading sign.

13. You are now on 24-hour duty at your loading point. One assistant will remain with the vehicles at the assembly area. You will not leave the dock area except when granted permission by the Embarkation Officer.

14. See that each driver performs final waterproofing on his vehicle. You must personally check each vehicle. 703rd Ordnance Company will have representatives in each Division Assembly Area with necessary waterproofing materials for final touch-up.

15. At the earliest possible time prior to loading, board your vessel - make a physical inspection of the craft to see that the pre-stowage plan can be executed; make sure that the troop facilities are adequate for the personnel to be placed aboard; advise the ship's officers of the load to come aboard and find out if any details are needed from the troops. On the AP and AK cooks, messmen and police details will be required. The number of personnel desired by the ship is laid down in the ship's organization book. On M/T's the Chief Mate should be contacted for this information; on AKA's and AP's look up the First Lieutenant.

16. The Navy is responsible for providing troop rations. Check that sufficient rations have been loaded aboard.

II - EMBARKATION:

1. When loading commences, place an assistant with the vehicles at the assembly area. This assistant will act as dispatcher, and when directed by Division Staff Officer in Charge, will send vehicles to the loading point. You will supervise the actual loading on the dock. Your other assistants will act as checkers at the individual hatches.

2. In loading into holds by tackle, remember some hatches may work faster than others and that the order in which they are loaded in any one hatch may not be the exact inverse order of priority for discharge. Therefore, to permit the free movement of individual vehicles as desired to the dock, do not pack your vehicles bumper to bumper in the assembly area.

3. After your vehicles are loaded get all Army personnel off the ship and then check them back on. Have a check of the ship made to insure that all personnel are actually ashore. Each man must give you an embarkation card which shows his name, rank, serial number, organization and vessel number (ASN). You must obtain spare cards from the Embarkation Officer to be made out on the spot, because some men will lose theirs. After all personnel are loaded, mark the stack of cards with the naval craft type and name, and turn the cards over to the Embarkation Officer. No personnel will be permitted to leave the craft after they have been checked aboard. Station a sentry on the gangway to make certain this is complied with.

III - DURING VOYAGE:

1. Act as liaison officer between CO Troops and the CO vessel.

2. Look continually to the welfare of the men and care of vehicles and weapons.

3. Prior to debarkation ascertain that each driver has checked the waterproofing of his vehicle and made all necessary corrections. Instruct every driver to put his vehicle in low range with front wheels engaged before landing, to leave the ramp slowly but keep moving, and not to shift until off the beach.

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IV - DEBARKATION:

1. Remain with your craft until it is completely discharged. If the vessel leaves the far shore unloading area before complete discharge of vehicles, do not go ashore but remain on board. You are responsible for those vehicles until they are landed on the far shore.

2. In unloading, keep a checker on each hatch so that at all times you know the exact status of the supplies and equipment remaining in your ship. Remember that when ever you place any kind of a towed load in a lighter, you have got to put a prime mover in the same lighter, forward of the towed load.

3. When completely unloaded, sign name, date, and hour to your loading list.

4. Report to the officer in charge of the beach (36th Engineer Regiment) or his executive and give him signed loading diagram.

5. Report to your commanding officer for duty.

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xInit: 12/13 x
xDate: 7 August 1944 x

APPENDIX 7 to ANNEX 4 (FO 12)
MAPS: 1/25,000 FRANCE - Sheets XXXV 4, 1 & 2; XXXV 45, 5 & 6, XXXV 45, 7.

HQ 3RD INF DIV RELIEF
NAPLES, ITALY
7 August 1944

ADMINISTRATIVE INSTRUCTIONS

I. REPLACEMENT PROCEDURE

1. Operation of the Replacement System.

a. The Replacement Plan provides that the Commanding General, Replacement Command, will furnish support to the operation by furnishing replacements through replacement units consisting of a Depot Hq & Hq Company and four replacement battalions, each consisting of the Battalion Hq & Hq Detachments and four Replacement Companies. For the initial phase, one Replacement Company will give support to and land with each U. S. Division. Each company will be filled in advance with the appropriate proportion of replacements. These replacements are to be supplied by the Replacement Command and are to cover initial Divisional loss replacements. The replacements will be fit for immediate combat duty.

b. The 379th Replacement Company will support the 3d Infantry Division is expected to land on D Day, is attached to the 3d Quartermaster Company for operations, and can be reached through the "Convoy" operator.

c. Availability of Replacements.

D Day --- The first replacements to arrive will land with the 379th Replacement Company on D Day and will consist of the following enlisted men --- No officers:

200 Infantry
20 Engineers
200 Artillery
420

These men will be assigned and sent out to units at some time between arrival date and D + 10.

D + 10 --- The second group of replacements consisting of 35 officers and 565 men are scheduled to land on this date. Eighty-five percent of this number will be Infantry. The remaining fifteen percent will include all of the other combat arms including a few Tankers and TD men. While this group of replacements is scheduled to land on D + 10 it is not to be made available to the Division Commander until the Division assigned strength is below 105 percent of Tables of Organization. Non-divisional units must have an assigned strength below Tables of Organization before replacements will be released to them.

D + 16 --- Second Replacement Depot with a stock of 4,800 replacements, including all branches, is scheduled to land on D + 16 to support all American divisions.

2. Returns to Units (RTU's)

a. For divisional units, hospital evacuees from the mainland will land on:

D Day with the 379th Replacement Company.
D + 16 with the Second Replacement Depot.

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xDate: 7 August 1944 x

APPENDIX 7 to ANNEX 4 (FO 12)
MAPS: 1/25,000 FRANCE - Sheets XXXV 44, 1 & 2;
XXXV 45, 5 & 6, XXXV 45, 7.

HQ 3RD INF DIV RELEASED
NAPLES, ITALY
7 August 1944

ADMINISTRATIVE INSTRUCTIONS

I. REPLACEMENT PROCEDURE

1. Operation of the Replacement System.

a. The Replacement Plan provides that the Commanding General, Replacement Command, will furnish support to the operation by furnishing replacements through replacement units consisting of a Depot Hq & Hq Company and four replacement battalions, each consisting of the Battalion Hq & Hq Detachments and four Replacement Companies. For the initial phase, one Replacement Company will give support to and land with each U. S. Division. Each company will be filled in advance with the appropriate breakdown of replacements. These replacements are to be supplied by the Replacement Command and are to cover initial Divisional loss replacements. The replacements will be fit for immediate combat duty.

b. The 379th Replacement Company will support the 3d Infantry Division is expected to land on D Day, is attached to the 3d Quartermaster Company for operations, and can be reached through the "Convoy" operator.

c. Availability of Replacements.

D Day --- The first replacements to arrive will land with the 379th Replacement Company on D Day and will consist of the following enlisted men --- No officers:

300	Infantry
20	Engineers
280	Artillery
600	

These men will be assigned and sent out to units at some time between arrival date and D + 10.

D + 10 --- The second group of replacements consisting of 30 officers and 565 men are scheduled to land on this date. Eighty-five percent of this number will be Infantry. The remaining fifteen percent will include all of the other combat arms including a few Tankers and TD men. While this group of replacements is scheduled to land on D + it is not to be made available to the Division Commander until the Division assigned strength is below 105 percent of Tables of Organization. Non-Divisional units must have an assigned strength below Tables of Organization before replacements will be released to them.

D + 16 --- Second Replacement Depot with a stock of 4,000 replacements, including all branches, is scheduled to land on D + 16 to support all American divisions.

2. Returns to Units (RTU's)

a. For divisional units, hospital evacuees from the mainland will land on:

D Day with the 379th Replacement Company.
D + 16 with the Second Replacement Depot.

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Appendix 7 to Annex 4 to FO 12

b. For attached units (other than the three normal attachments)

Hospital evacuees from the mainland will land on D + 16.

c. Returns to units will be returned to units through the 379th Replacement Company.

3. Casuals.

Commencing D day and through D plus three, beachhead hospitals and clearing stations will deliver Class A-1 hospital evacuees to the Adjutant General Forward Control Section at the Division [illegible]. Effective D plus four, hospitals and clearing stations will deliver Class A-1 and Class A-2 hospital evacuees direct to the 379th Replacement Company or to the nearest replacement installation.

4. Equipment.

General replacements shipped from the 379th Replacement Company to units will be fully equipped including individual arms. Beachhead MD's returned to units prior to arrival of the Second Replacement Depot on or about D + 16 will be re-equipped by the 3d QM Co to the limit of its available stock.

II FISCAL POLICY

1. As the pending operation will take the division and attached troops into France, there are certain problems related to money and finance procedure that must be clarified.

2. Before the troops enter France an exchange of Italian Lire and Allied Military Lire for French Supplemental Francs will be effected. The exchange rate will be two Lire for one French Franc. For security reasons this cannot be done until the men are on board ship. The actual mechanics of the transfer will be made known to the officers concerned in time to make the exchange. Briefly it will be done by having an officer on board each ship collect the money from personnel aboard and he in turn will exchange this with the finance officer for francs. After the ship has left the harbor, the money will then be distributed.

3. The currency in use will be forms of franc notes. The following only will be legal tender in the liberated areas of France:

a. Bank of France notes and coin.
b. Coins issued by chambers of commerce and in circulation at time of liberation.
c. Administrative currency (franc notes) issued by communes and in circulation at time of liberation.
d. Supplemental Franc notes as set forth in Currency Proclamations to be published as territory is liberated (this will be the type most generally used by American troops. It is similar in appearance to the Allied Military Lire now used in this country.)

4. No other currency is legal tender within Metropolitan France unless so authorized by later proclamation by appropriate authorities. It is to be particularly noted that no U. S. currency, either regular issue or gold seal notes is legal tender. Finance officers may exchange francs for U. S. money upon satisfying themselves as to the source of the money. This will be done by a certificate from the officer turning in such notes to the effect that he has personal knowledge that it was not acquired from any source within France. Exchange of such funds in possession of enlisted men must be done by officers. ANY PERSON WHO RECEIVES ANY U. S. MONEY FROM CIVILIANS OR THE COUNTRY IS SUBJECT TO TRIAL BY COURT-MARTIAL.

5. Once in France, the official rate of exchange expressed in terms of Francs to the dollar, which will be announced by proclamation to the population, will be 49.5663 francs [illegible] one United States dollar.

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Appendix 7 to Annex 4 to FO 12.

III U. S. MAIL

First incoming letter mail is expected to be delivered by D ∔ 6 and incoming package mail by D ∔ 15. Outgoing letter mail will be delivered to the 3d QM Co for processing by the Forward Section of MPO 3. This Section is expected to set up and commence functioning by D ∔ 1.

Outgoing mail dispatched on and after D ∔ 1 may carry the heading "Somewhere in Southern France".

O'DANIEL,
Comdg.

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S E C R E T

Hqs 3rd Inf Div
G-4
15 July 1944

Code No 28

APPENDIX #8, ANNEX #4 (Adm O)
TO ACCOMPANY FIELD ORDER # 12.

ORDNANCE

I - WATERPROOFING

1. All vehicles and major caliber weapons for the assault, including those on OGS, will be waterproofed. Detailed instructions on waterproofing and de-waterproofing are given in Appendix #3, Annex #4 (Adm O) to accompany Field Order No. 12.

II - MAINTENANCE AND SUPPLY

1. D Day:

a. Regimental combat teams only: Replacement major items and limited maintenance and supply service at 703rd Ordnance Company.

b. DUKW Units: Limited maintenance and supply service at 3407th Ordnance Company.

2. D/1 to D/3:

a. Division Units: 703rd Ordnance Company.

b. DUKW & Other Beach Group Attachments: 3407th Ord. Co.

c. All Other Units: 14th Ordnance Company.

3. D/4 and thereafter: Upon landing of Ordnance units indicated below, units will obtain Ordnance service as follows:

a. Supply:

(1) Division Units: 703rd Ordnance Company.
(2) Other Units: 43rd Ordnance Battalion.

b. Maintenance:

(1) Division Units: 703rd Ordnance Company.
(2) 634th FA Bn)
36th FA Bn)
69th Armd FA Bn)--- Det., 87th Ordnance Co.
756th Tank Bn)
601st TD Bn)
(3) Units of 5th AAA Gp: Det., 261st Ordnance Co.
(4) 36th Engr Regt and attachments: 3407th Ord Co.
(5) All Other Units: 14th Ordnance Co.
(6) Ordnance maintenance companies only, for automotive maintenance support: 3432nd Ord. Co.

4. Major items will be issued in exchange for destroyed item or certificate that item has been lost and cannot be recovered.

III - AMMUNITION

1. General. Units will draw basic loads prior to debarkation and maintain same continuously during combat. At no time will ammunition in excess of organic carrying capacity be drawn, except when such is specifically authorized by the Commanding General, 3rd Infantry Division (Reinforced).

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2. Units will draw as follows:

a. Prior to D Day: by submission to DAO of requirement to complete basic load.

b. D Day: By informal request on nearest beach dump (Overlay).

c. D/1 and thereafter: Only upon authority of, and as directed by, transportation order obtained from DAO (Overlay).

3. Availability:

a. D Day: Ammunition for all principal weapons in the assault will be landed as follows:

WEAPON	ROUNDS PER WEAPON	TOTAL ROUNDS - YELLOW LCT	RED LCT's	RED DUKW's	TOTAL
37 AT and TK	18			1000	1000
37AA	95	800		2300	3100
40AA	85	900		1900	2800
57 AT	20	400		1600	2000
75 How	45	270		880	1150
75 Gun	40	600		1620	2220
3" Gun	50	300		1500	1800
90 Gun	75	400	800		1200
105 How, M2	161	1800	8616	1500	11916
155 How, M1	100		2400		2400
155 Gun	60		720		720
60mm Mortar	50	1500		3000	4500
81mm Mortar	110	2100		4196	6296
4.2" Mortar	60	700		2180	2880
Mine, AT				1000	1000
Mine, AP				400	400
Launcher, rocket	3	300		2100	2400
Launcher, Rifle, Gren.	3	1150		4450	5600
Pot, Smoke				2000	2000
Carbine	10	14000		86000	100000
Rifle, 8/clip	20	40000		160000	200000
5/clip		30000		70000	100000
.30 Mach. Gun	250	50000		115000	165000
.50 Mach. Gun	185	10000		100000	110000
Sub Mach. Gun	20	10000		18000	28000
Total Long tons		119	400	270	789

b. D/1 and thereafter: discharge at the rate of 1 unit of fire per day as unloading conditions permit.

4. All combat units will report daily beginning D Day by 2000B as of 1800B to the DAO on ammunition Form "V" giving rounds expended in the 24 hour period and balance on hand.

5. Ordnance Ammunition Companies:

a. 69th Ordnance Company will establish and operate ammunition depots as directed by the Beach Group Commander, except that arrangement of ammunition within depots and procedure in issuing will be as directed by the Division Ordnance Officer.

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b. 64th Ordnance Company will operate under control of the Division Ordnance Officer.

c. Both companies, when operating depots or supply points, will report daily beginning D Day by 2000B as of 1800B to the DAO on ammunition form "V" giving in rounds for the 24-hour period: receipts, issues, and balance on hand.

O'DANIEL
Cmdg

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TOP SECRET

*** SECRET ***
*Auth: CG 3d Inf Div. *
*Init: *
*Date: 1 August 1944 *

ANNEX #5
To
FIELD ORDER #12

HQ 3D INF DIV RELEASE
NAPLES, ITALY
1 AUG 1944

SIGNAL COMMUNICATION

1. General: This order covers only the special features of the amphibious phase of the operation. In all phases and details not specifically covered herein Division SOP and current Signal Circulars and Instructions will apply. Communications within each unit of this command will be operated by organic signal communication units using their own organic equipment plus those items of special equipment issued to units for specific missions. Normal attachments of wire and radio teams from the Division Signal Company will be made to Division Artillery and infantry regiments.

2. Radio Nets will be operated in accordance with attached diagrams (Appendices 1-2 incl.) as explained below:

a. Division Command Net (D-1) opens H-hour. Includes regimental headquarters ships and Beach Group Headquarters afloat (LCI's) and regiments, Division Artillery, other Division Units and Beach Group Headquarters ashore. A French Commando unit landing on the Division left flank will also work in this net. SCR-300 radios will be carried in headquarters ships and 1/4 ton trucks carrying SCR-193 Division Command radios. In the period when the regimental commanders are en route ashore and when separated from their SCR-193 radios ashore, they will communicate by an SCR-300 link to the headquarters ship or SCR-193, which will relay on Division Command Net. Alternatively, regimental commanders may communicate to Division Headquarters Ship by SCR-300 direct when distances permit. (See sub-paragraph c below.)

b. Division Commanders' Net (D-2) NCS opens H-hour. Outstations open on landing. They include Commanding General, Assistant Commanding General, and liaison officers with each regiment, all using SCR-193 radios mounted in 1/4 ton trucks, and, except for Liaison Officer, 30th Infantry, are landed in LCVP's. Each of these radio vehicles will also carry SCR-300 for communication to infantry units and to facilitate relays.

c. Division FM Command Net (D-3) using SCR-300 opens H-hour. Division Headquarters set guards Division FM Command channel. Division calls regiments in regimental FM Command Nets. When out-stations get out of range, they will relay through SCR-300 radios to craft and vehicles in the Division Command Net. This net closes H + 8 hours unless otherwise directed.

d. Beach Group Radio Nets will operate as follows:

(1) Shore Party Engineer Companies will operate out-stations in the FM Command Nets(SCR-300) of the battalions which they support. Engineer battalion headquarters, on landing will open SCR-300 stations in the FM Command Nets of the infantry regiments they support, except in the case of the 30th Infantry where shore battalion will have an SCR-284 in CT Infantry Regimental Command Net.

(2) Shore Party Engineer battalions on landing will establish inter-beach lateral net using SCR-284's initially. When engineer regiment lands, this net becomes regimental command net and SCR-284's are replaced by SCR-193's.

c. Communication for shore control of Naval gunfire will be provided by Division Artillery. Nine forward observer parties, each equipped with two SCR-284 and two SCR-610 will be landed

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with assault and reserve battalions. Initially these observers will each communicate directly with one ship on SCR-610 channel and to all ships on SCR-284 channels. After fire direction centers of supporting Division Artillery battalions are set up ashore, the forward observers will communicate to fire direction centers on SCR-284 channel, and alternatively on second SCR-610 channel. At each fire direction center there will be a naval gunnery liaison officer who will have contact by radio SCR-284 to fire support ships, by clearing fire missions through battalion FDC, any observer can fire any naval ship. For details of artillery communications, see Annex #7.

f. Air Support Control radio channels will operate ashore in normal manner. Afloat air support requests will be sent to Corps on channel C-1.

g. Artillery Liaison Aircraft will be equipped with crystal channel 400 on SCR-609 to communicate with channel O of SCR-300 and held in readiness to fly missions to contact infantry battalions. Airplanes will use pyrotechnic signals (~~red~~ parachute flares) to indicate to infantry unit that airplane desires to talk to it on SCR-300 channel O.

3. Radio Silence will be observed until H-hour. Receivers will be turned on at H-2. Division radio channels will be monitored for security and staff information by SLAM Detachment continually after H-hour.

4. Ciphers and Authenticators for all Army and Navy, American and French elements will be identical from H-hour to 0200 D + 5, at which time Division reverts to normal systems. AFCODE as prescribed in current SOI will be used for all phases of the operation. A special, limited distribution prearranged message code will be used in Division Commanders' Net only.

5. Wire Communications will be established on normal scale ashore at earliest possible time, and upon establishment will become the primary channel of communication. Maximum wire loads permitted by available transportation will be carried. Adequate wire stocks for resupply will be landed by Division on D-day and will be available for issue at Division Command Post.

6. Waterproofing of signal equipment is a command responsibility. Instructions and materials for such waterproofing will be issued by the Division Signal Supply Officer. All signal equipment to be used in all phases of the landing will be waterproofed prior to loading, will be checked immediately before loading and again before landing. With the sole exception of SCR-300 radios, no signal equipment will be de-waterproofed for operation prior to landing.

O'DANIEL
Comdg

OFFICIAL: Connor

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LIST OF APPENDICES:
1. Division Radio Nets, Phase I, Assault Battalions Ashore.
2. Division Radio Nets, Phase II, Regiments Ashore.

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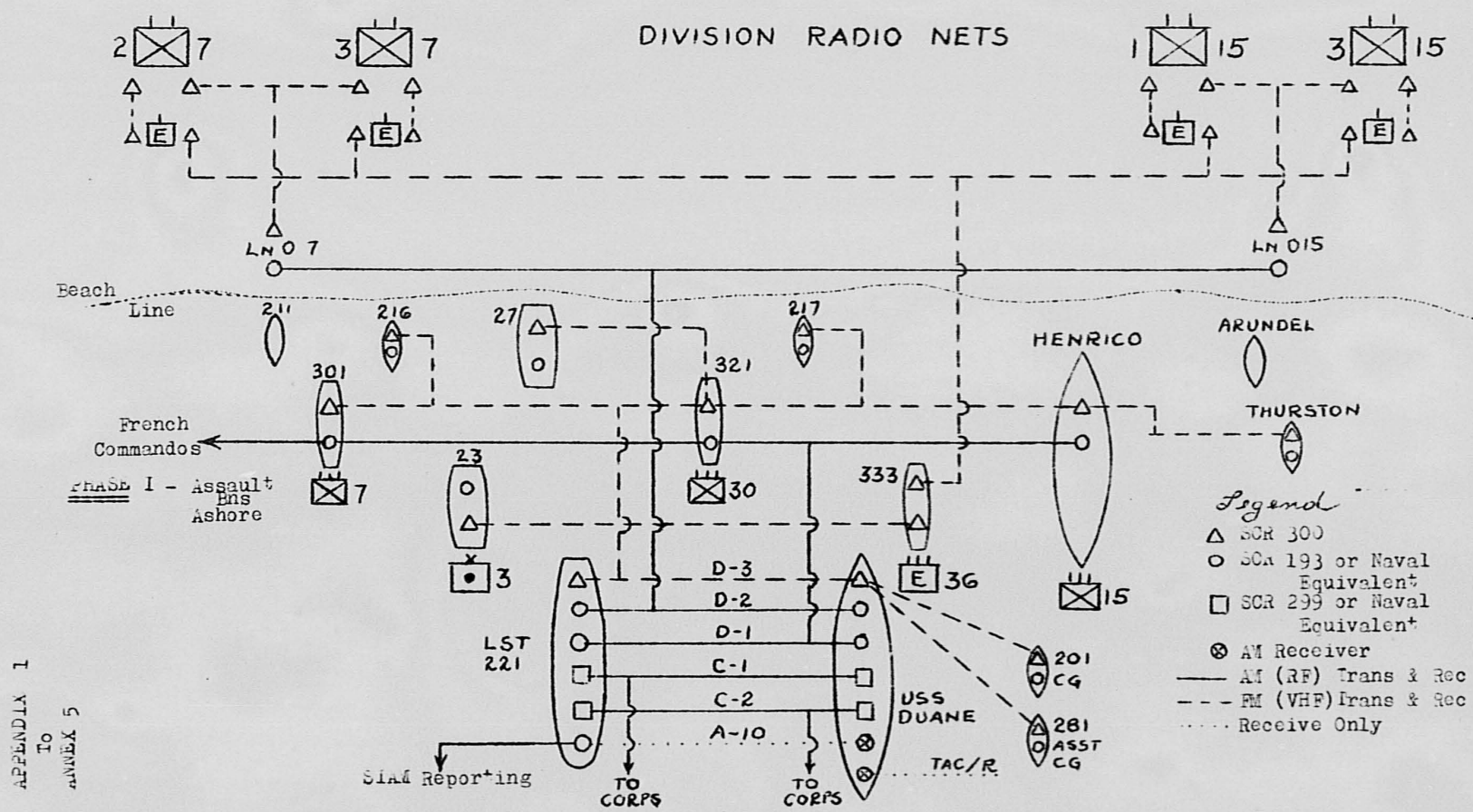
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APPENDIX 1
To
ANNEX 5



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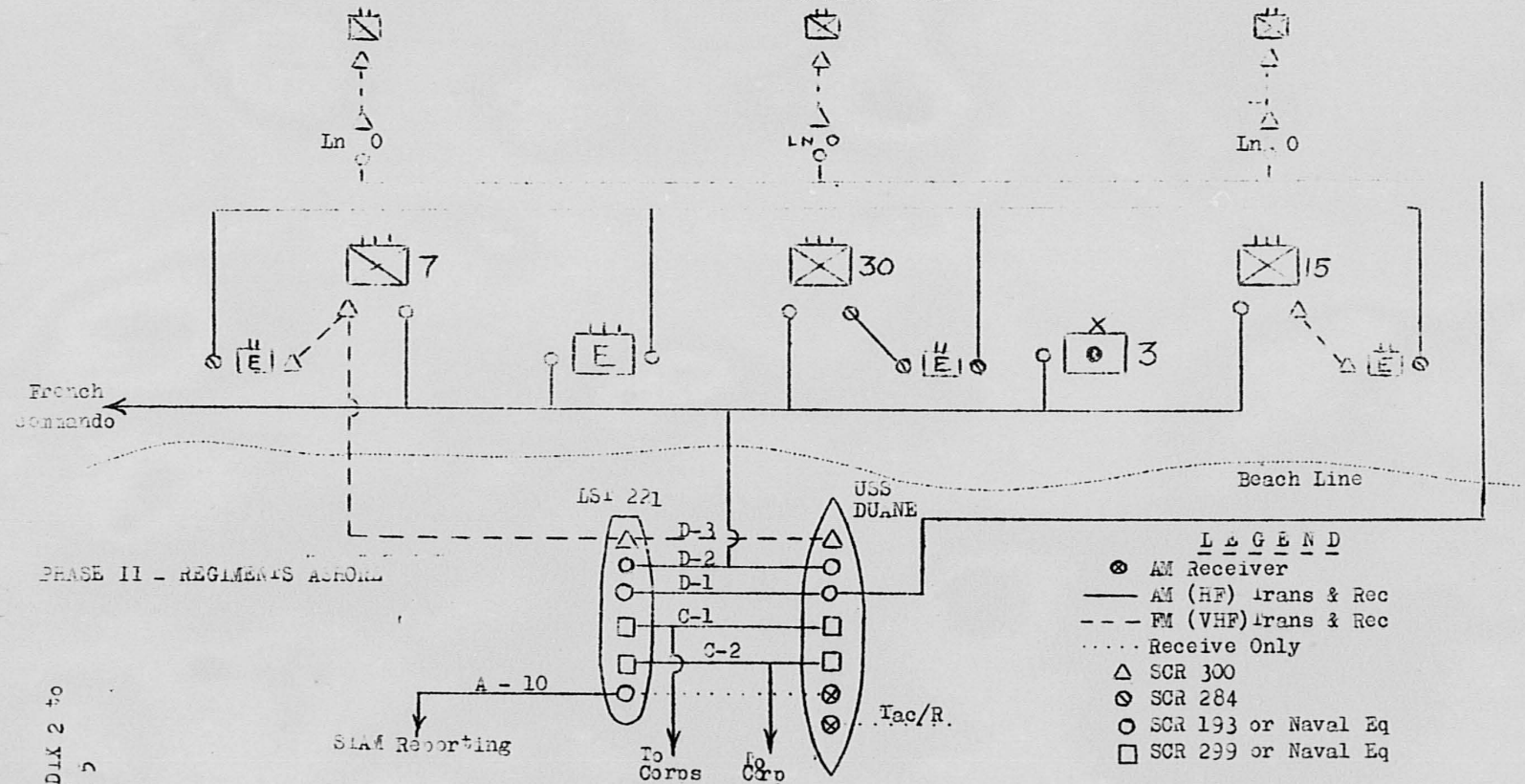
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DIVISION RADIO NETS



PHASE II - REGIMENTS ASHORE

APPENDIX 2 to
ANNEX C

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*Auth: CG 3d IDA *
*Init: [illegible] *
*Date: 1 August 44 *
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HQ 3D INF DIV ARTY (REINF)
NAPLES, ITALY
1 AUGUST 1944

ANNEX #6
To
FIELD ORDER #12

MAPS: 1/25,000 FRANCE - Sheets XXXV 46, 1 & 2; XXXV 45, 5 & 6; XXXV 45, 7.

A R T I L L E R Y

1. a. Information of enemy - See Intelligence Annex #2 to FO #12, Hq 3d Inf Division (Reinf).
   b. Information of other artillery:
      (1) Det, 2nd Observation Bn with 3d Inf Div Arty - Reconnaissance for Sound and Flash bases.
      (2) Artillery attached 45th Div:
         (a) 59 A FA Bn (105 M-7 SP).
         (b) 938 FA Bn (155 How M-1).
         (c) Btry A, 976 FA Bn (155 Gun M-1).

2. Mission of Artillery:
   a. Land Div Arty and attachments on beaches RED and YELLOW in accordance with landing schedule.
   b. Support the attack on division objectives.

3. Missions:
   a. 9th FA Bn (155 M-1 How) - Attached 41st FA Bn.
   b. 10th FA Bn (105 How) - Beach RED.
      (1) Mission:
         (a) Direct support 7th Inf.
         (b) Reinforce fires 41st FA Bn on order.
      (2) Position area - See Appendix I, Opns overlay.
   c. 39th FA Bn (105 How) - Beach YELLOW.
      (1) Mission:
         (a) Direct support 15th Inf.
      (2) Position area - See Appendix I, Opns Overlay.
   d. 41st FA Bn (105 How) - Beach RED.
      (1) Mission:
         (a) Direct support 30th Inf.
         (b) Reinforce fires 10 FA Bn on order.
      (2) Position area - See Appendix I, Opns Overlay.
   e. 69th Armd FA Bn (less A Btry)(105 M-7 SP) - Attached 41 FA Bn.
   f. A Btry, 69th Armd FA Bn (105 M-7 SP) - Attached 39th FA Bn.
   g. C Btry, 36th FA Bn (155 M-1 Gun) - Attached 634th FA Bn.
   h. 36th FA Bn (less C Btry)(155 M-1 Gun).
      (1) Mission:
         (a) General support, reinforcing fires of 3d Inf Div Arty.
   i. 634th FA Bn (155 M-1 How) - Attached 10th FA Bn.
   j. 44lst AAA AW Bn SP, less Btry C, less one Plat Btry B, will land on beach RED and set up antiaircraft defense of landing beach. Upon direction from 5th AAA Group, 44lst AAA AW Bn SP will move to give close support to 3rd Inf Div Arty, including all attached artillery upon 5th AAA Group order.
      (1) Btry C and 2nd Plat Btry B 44lst AAA AW Bn SP will land on Beach YELLOW and provide anti-aircraft protection to beach. Will move with remainder of battalion to close support of 3d Inf Div Arty on 5th AAA Group order.
   x. (1) Center lines:
         (a) 9th FA Bn, 1 Btry Ca 600 mils.
                        1 Btry Ca 6250 mils.
                        1 Btry Ca 5550 mils.
         (b) 634th FA Bn, 1 Btry Ca 4450 mils.
                          1 Btry Ca 5070 mils.

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(c) C Btry 36th FA Bn, 1 Plat Ca 4450 mils.
1 Plat Ca 5070 mils.

(2) Survey:
(a) Initial stage:
(1) Declination of Instruments.
(a) The declination is 165 ₥ W. A basic declination constant of 6235 ₥ will be used.
(b) Compensation for usual needle variation among instruments, as determined by past declinating, will be made.

(3) Planes:
(a) Ten L-4 Cubs available from LST.
(1) Two from each 10th, 39th, 41st FA Bns; one from each Hq Div Arty, 9th, 69th, and 634th FA Bns.
(b) Two L-5 Cubs escorted from CORSICA.
(c) Airstrips - See Operations Overlay.

(4) Liaison:
(a) 158th FA Bn (45 Div) with 39th FA Bn (SCR 610).
(b) Div Arty liaison party with French Commandos (SCR 610)(Div Arty command and 10th FA Bn command channels).

(5) Metro messages:
(a) Every four hours on establishment CP 3rd Inf Div Arty.

4. Supply, evacuation, traffic - See Adm Order, Annex 4 to FO #12.

5. a. Axis of Communication - route of advance of 30th Inf.
b. Division Arty Information Center - railroad crossing (42.05 - 07.10) Beach RED.
c. 10th FA Bn is designated NCS for Div Arty command net until Division Arty assumes control.

SEXTON
COMDG

OFFICIAL:
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1 Appendix - Operations Overlay.

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T O P S E C R E T

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* AUTH: CG 3d Inf Div *
* INIT: [illegible] *
* DATE: 1 August 1944 *
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HQ 3D INF DIV
APO #3
1 AUGUST 44

ANNEX NO. 7 TO FO #12, 3ID (REINF)
MAPS: 1/25,000, FRANCE, Sheets XXXV 46, 1 & 2; XXXV 45, 5 & 6, XXXV 45, 7.

NAVAL GUNFIRE SUPPORT

1. Fire support groups will furnish close and deep supporting fires to 3d Inf Div commencing H-40 minutes, D-Day.

2. Employment:

a. Beach 259 (RED)

SHIP	SFCP CALL SIGN	SFCP	MISSION
USS Livermore (DD) (Am)	FC 5	SFCP 5	Direct Support 3d Bn 7th Inf (aslt)
HMS Aurora (CL)(Br)	FC 4	SFCP 4	Direct Support 3d Bn 7th Inf (aslt)
USS Eberle (DD) (Am)	FC 9	SFCP 9	Direct Support 2d Bn 7th Inf (aslt)
HMS Ajax (CL (Br)	FC 2	SFCP 2	Direct Support 2d Bn 7th Inf (aslt)
FS Gloire (CL (FR)	FC 6	SFCP 6	Direct support 1st Bn 7th Inf (res)
HMS Orion (CL) (Br)	FC 8	SFCP 8	Direct support 3d Bn 30th Inf
USS Kearney (DD)(Am)			Beach spot from LCC

b. Beach 261 (YELLOW)

HMS Terpsichore (DD)(Br)	FC 3	SFCP 3	Direct support 1st Bn 15th Inf(aslt)
HMS Black Prince (CL)(Br)	FC 3	SFCP 3	Direct support 1st Bn 15th Inf(aslt)
USS Quincy (CL)(Am)	FC 1	SFCP 1	Direct support 3d Bn 15th Inf (aslt)
HMS Termagent(DD)(Br)	FC 7	SFCP 7	Direct support 2nd Bn 15th Inf(Res)
USS Ericsson (DD)(Am)			Beach spot from LCC

c. Beach 259 (RED) and 261 (YELLOW)

HMS Ramilles (BB)(Br)	General support - all parties

d. (1) LCG and (1) LCF close to shore on each side of 2nd assault wave on both Beach Red (259) and Beach Yellow (261) with mission of firing on beach defenses.

e. (6) LCT (R) on Beach Red (259) and (4) LCT (R) on Beach Yellow (261) to close to shore and neutralize beach assault area with rocket fire from H-12 to H-5 minutes. Two banks of smoke in each LCT (R).

f. (1) LCC will close to each beach, (259 and 261), with initial wave. Army spotter on each LCC will take under fire with fire support ships any enemy weapons firing on the boat waves.

3. Instructions for Shore Fire Control Parties.

a. Shore Fire Control Parties will call for known targets by number designation (see overlay). For the purpose of Naval gunfire, targets not listed will be called for by grid coordinates (The Lambert Zone Grid III "Red" system, 1/25,000 Map, France).

b. Use Mediterranean Bombardment Code 1944.

c. Establish contact with Fire support groups by SCR 609 prior to establishing OP.

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H-Hour to H+15:

Ramillies - As for previous period.

Quincy - P-40 - SOC.

Orion - P-41 - Seafire.

Ajax - N-23 - Seafire.

Aurora)
Gloire) - Assists in beach bombardments till H-10.

Black Prince - N-17 from H-30 to H-10 then switches back to N-17 until H Hour.

Destroyers - Maintain beach bombardment from "point-blank" range, shifting fire to flanks clear of landing craft when the latter touch down.

H+15 min to H+2½ hours:

Ramillies - Group reserve, available for suitable targets on call as required.

Quincy - With own aircraft covers N-23, N-19, P-41 up to time limits specified and area East of gridline 46 and North of gridline 12.

Black Prince - With Seafire covers area East of gridline 46 and South of gridline 12 and batteries therein up to times specified.

Ajax - With Seafire covers area West of line joining point 4207 and Cogolin extended, including target N-27.

Orion - With Seafire covers area between gridline 46 and line joining 4207 and Cogolin (see above). Cruisers are also in touch with S.F.C.P's and will confirm opportunity targets before engaging.

Aurora)
Gloire)
Eberle) - With S.F.C.P's
Livermore)
Terpsichore)
Termagent)

Kearney - With L.C.C. RED.
Ericsson - With L.C.C. YELLOW.

H + 2½ hours onwards:

All ships with S.F.C.P's Ramilles, Kearney, and Ericsson in reserve. Quincy will use S.O.C. as reqd.

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S E C R E T

APPENDIX I to
ANNEX 7 (FO 12)

COMMUNICATIONS DIAGRAM SFCP
SCR 284 SCR 609 FM Diagram

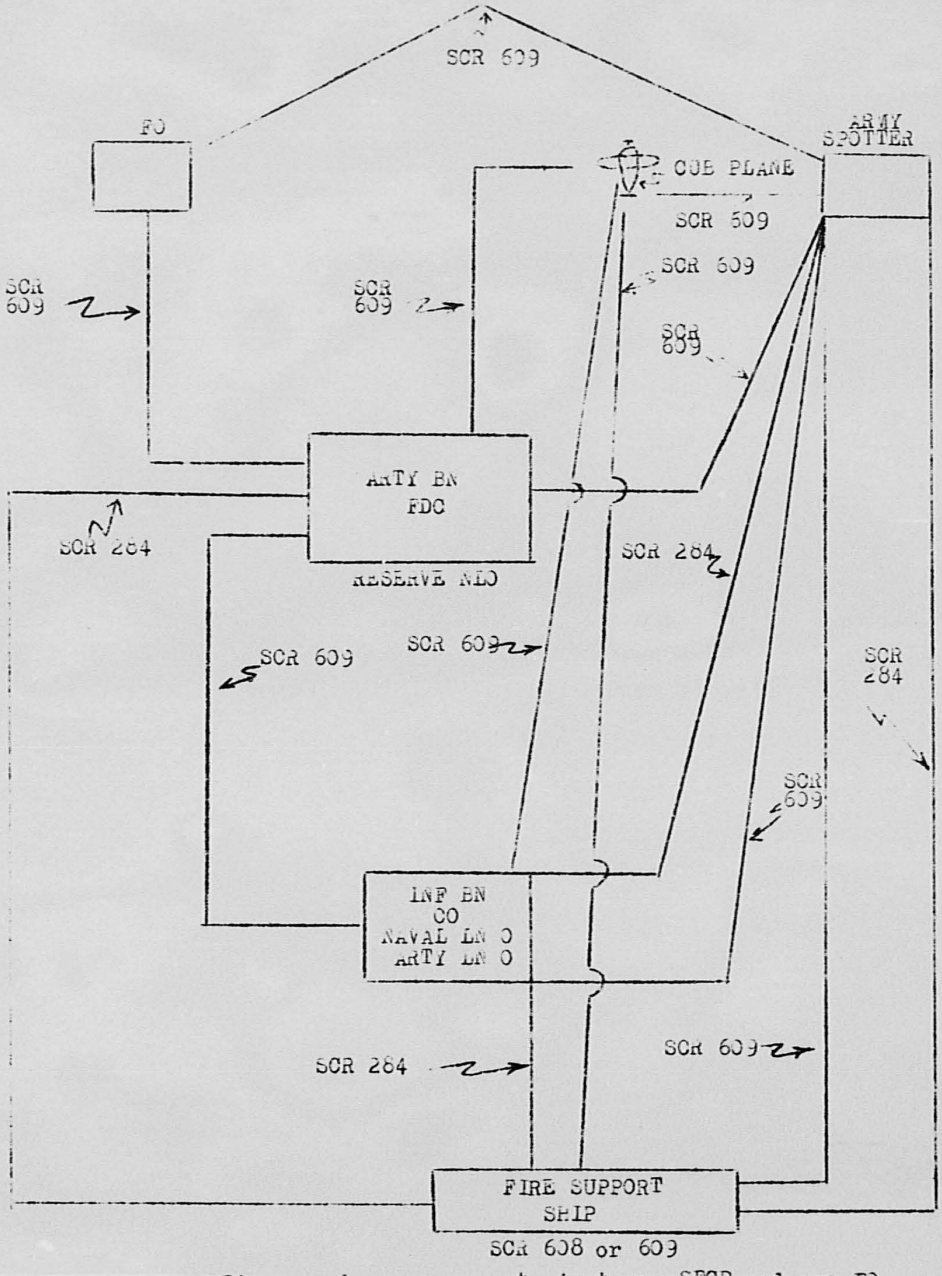


Diagram above represents just one SFCP and one FO. Communications apply to all 3 SFCP and 3 FO's with Each ROT.
In addition to 3 SFCP spotters, any arty FO can contact Arty FDC and fire any fire support ship.

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* Date: 1 August '44 *
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Hq 3rd Inf. Div (Reinf)
APO #3
1 August 1944

APPENDIX I A to ANNEX 7, FO 12, 3ID (Reinf).

RADIO FREQUENCIES SFCP

SHIP	SFCP	SHIP CALL SIGNS Col 1	Col 2	Col 3	Col 4	SFCP Call Signs	284 Frequency "A"	"B"	610 Frequency "A"	"B"
HMS RAMILLES		3B4	4B2	5B6	6B8	-				
USS QUINCY	1	8V4	7H9	ØAØ	ØB7	FC 1	4670	5100	280	344
HMS ORION	8	5U1	4W7	6W6	6V4	FC 8	5060	"	357	306
HMS AURORA	4	6M3	ØHØ	2S8	8G7	FC 4	5130	"	290	359
HMS AJAX	2	ØE5	9E1	1F7	2F9	FC 2	4760	"	286	359
HMS BLACK PRINCE	3	6F1	3F5	5F6	3F2	FC 3	4920	"	308	344
FS GLOIRE	6	5U2	7Z0	604	8H4	FC 6	4510	"	297	359
USS LIVERMORE	5	2A8	4L6	304	7Z7	FC 5	4550	"	341	359
USS PEARL	9	6W6	4P8	ØM7	2L1	FC 9	4260	"	300	359
HMS TERPSICHORE	3	1N8	5M3	8T1	8I3	FC 3	4920	"	308	344
HMS LOOKOUT	7	2B8	ØG5	ØC7	6M8	FC 7	5430	"	310	344
USS KEARNEY		2IØ	6C6	3C8	6A9	BD8			357	359
USS ERICSSON		9E1	ØH3	5L1	3U3	BD7			310	344

Column one is to come into effect at ØØØØ D Day--Columns 2,3, and 4 will not be used until authorized by CWNTF.

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Ho 3rd Inf. Div (Reinf)
APO #3
1 August 1944

APPENDIX II to ANNEX 7, FO 12, 3ID (Reinf).

SCHEDULE OF PREARRANGED FIRES

Up till H-90: Ships will be detailed individually to cover by direct fire all batteries that can be seen from the sea i.e. all those most likely to engage the shipping off shore. Destroyers will be covering the minesweepers in their respective beach areas.

H-90 to H-60:

Ramilles - Prepared to join in bombardments of P-40 or N-26 should this be necessary.

Quincy - Bombards N-31 using own float plane for spotting.

Orion - Bombards N-26 with Seafire spotting.

Ajax - Bombards N-16 with Seafire spotting.

Aurora) - Covering batteries capable of direct fire in the Red Beach area
Gloire) e.g. N-29, N-24, N-35, N-82 etc.

Black Prince - Bombards N-32 with Seafire.

Eberle)
Kearney) - Covering beach defenses and any anti-landing guns Red Beach area.
Livermore)

Ericsson)
Torpsichore) - Covering beach defenses and any anti-landing guns Yellow Beach area,
Tormagent) esp. P-53.

H-60 to H-30:

Ramilles - Continues to watch over P-40 and N-26. Carries out intermittent bombardments of heavily defended areas on flanks of main beaches - this to cease by H-10 approx.

Quincy - N-37 using own plane.

Orion - N-33 using Seafire.

Ajax - N-10 & N-11 using Seafire.

Aurora)
Gloire) - As for previous period.

Black Prince - N-19 using Seafire.

Destroyers - Begin bombardment at their allotted sectors of each beach during this period and start closing in to the shore.

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d. Carry SCR 609 as initial means of communication. SCR 284 to follow up on party transportation on LCT.
e. Furnish adequate description of targets and inform gunfire support groups as to location of our front lines, type of target, and type of fire required.

4. Naval Gunfire Liaison Officer with reserve infantry battalions will, upon establishment of Bn artillery FDC, revert to artillery FDC as central control of Naval gunfire for respective regiments.

5. British liaison officer (Army) will be stationed with each American Naval gunfire liaison officer at the Infantry Bn CP.

6. In event of enemy air, surface, or submarine attack on Fire Support Groups or transports, their bombardment will be reduced as necessary. Information will be radioed in the clear to SFCP.

7. Naval Gunfire Liaison Officer and attached parties will revert to Naval command on order CO 3IDA.

O'DANIEL
Cmdg

OFFICIAL:

CONNOR
G-3

Incls:
Appendix I - Communication Diagram - SFCP, SCR 284, SCR 609.
a. Radio frequencies.
Appendix II - Schedule of Prearranged Fire.
Appendix III - Target Overlay.

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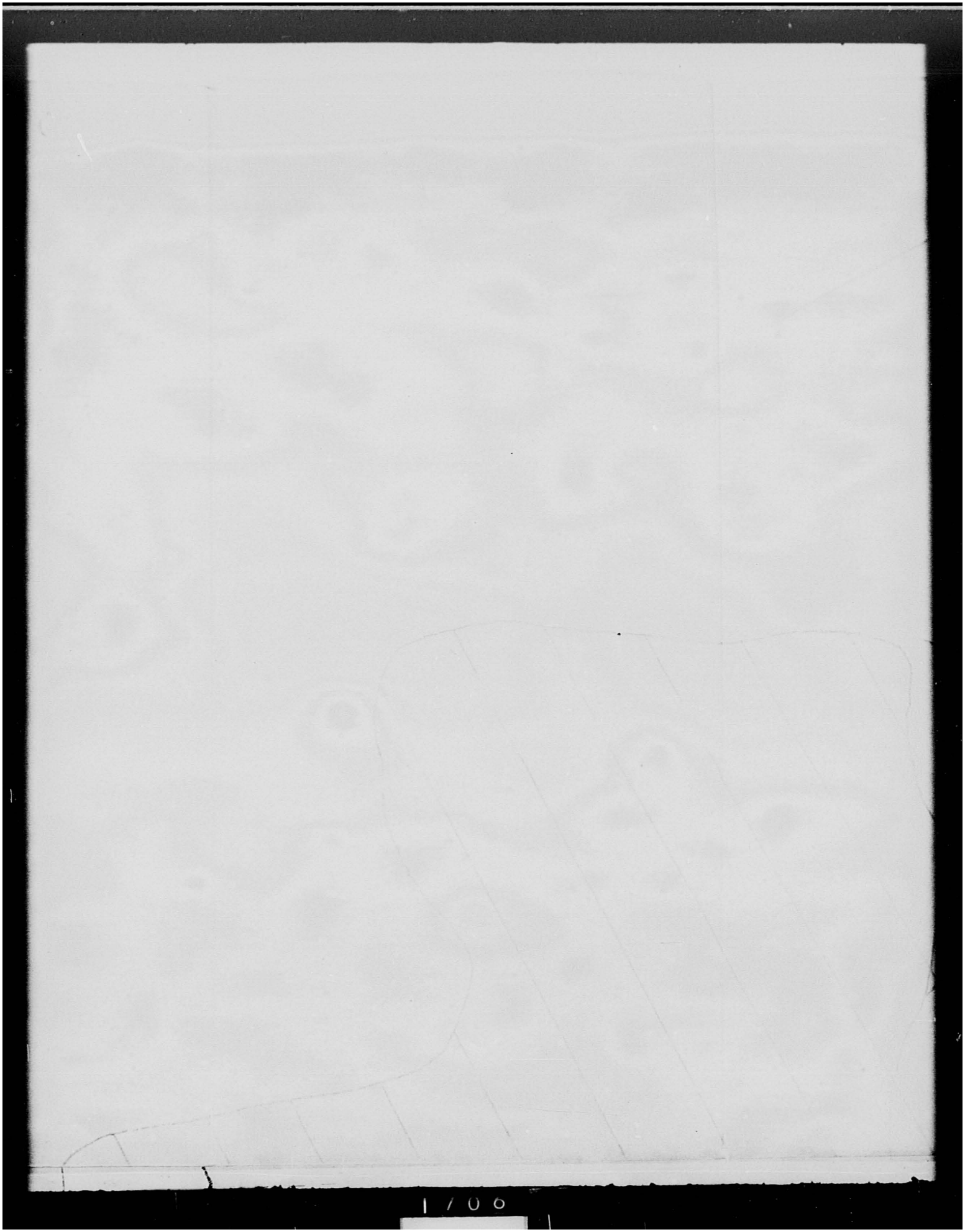
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Auth: CG 3d Inf Div
*Init: *
Date: 1 August 1944
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HQ 3D INF DIV
APO #3
1 AUGUST 1944
NAPLES, ITALY

ANNEX NO. 8 - AIR SUPPORT
TO
FIELD ORDER NO. 12

MAP: France 1/100,000

1. General:
   a. Organization
      XII Tactical Air Command reinforced:
      4 Fighter Groups
      5 Fightrr-Bomber groups
      7 Medium Bomb groups
      21 Heavy Bomb groups
      3 Tactical Reconnaissance squadrons
      Approximately 200 Navy Carrier-based planes.
   b. Aircraft of Provisional Troop Carrier Air Division will operate between WEST coast of ITALY and vicinity of LE MUY, FRANCE commencing prior to first light on D Day, in connection with the operation of 1st Airborne Task Force. (RUGBY FORCE). Transport planes, gliders and necessary day and night fighter cover will be included.

2. Air Mission from D-30 to D-1 inclusive
   a. To neutralize and destroy enemy air forces which threaten the assault area.
   b. To isolate general battle area by attacks against main road and rail lines. Program to cover wide area to avoid premature indication of attac area to enemy.
   c. From D-10 to D-1, to attack coastal defense batteries selected by Navy in areas from GENOA to the SPANISH border.
   d. On D-1 and night D-1/D, to execute bombing attacks from ILE DU LEVANT to MARSEILLE in accordance with Tactical Cover Plan (Operation NUTMEG). Gun installations on Islands of LEVANT, PORT CROS, PROQUEROLLES and GIENS Peninsula to be included in attacks prior to first light on D Day.

3. Air Mission on D Day
   a. Prior to H Hour:
      (1) The Air operation in direct support of the ANVIL Assault on D Day prior to H Hour has been designated Operation YOKUM.
      (2) Purpose of Operation YOKUM is to cause maximum destruction to enemy coastal and beach defenses within the assault area with all forces available.
      (3) Following targets will be engaged:
         (a) Counterbattery attacks, coordinated with Naval gunfire, on any enemy artillery that can be brought to bear on shipping of any type in the assault area.
         (b) Enemy guns and other military installations which bear directly on the ability of our ground forces to advance over the beaches.
         (c) Beach obstacles and defenses to be bombed by Heavy and Medium bombers using light weight demolition and fragmentation bombs with instantaneous fuses.
         (d) Enemy light artillery and other military installations that are capable of delaying the planned D Day advances in general.
         (e) Destruction of any enemy airdromes operational in or within close fighter operating range of the assault area.

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(4) Operation YOKUM provides for bombing attacks from first light until H-30 minutes. Eight Navy fighter-bombers will be on call at 0730B, 16 fighter-bombers of XII TAC at 0800B and 8 rocket projector planes at 0800B.

(5) For specific targets see Enclosures 1 and 2.

b. At and after H Hour:

(1) The Air Operation in direct support of the ANVIL assault beginning H Hour on D Day has been designated "OPERATION DUCKPOT".

(2) Purposes of Operation DUCKPOT are:

(a) To cause maximum destruction to enemy coastal and beach defenses within the assault area.

(b) To isolate the battlefield area by the destruction of rail and road bridges across the RHONE - ISERE - DURANCE rivers, and by blocking of defiles and rail lines running through the ALPS from the ISERE SOUTHWARD.

(c) To attack any enemy troop movements within the XII TAC area.

(3) The following target priorities will be followed:

(a) Up to H plus 6-1/2 hours the maximum effort will be directed against:

(1) Counterbattery attacks, coordinated with Naval gunfire, on any enemy artillery that can be brought to bear on shipping of any type in the assault area.

(2) Enemy guns and other military installations which bear directly on the ability of our ground forces to advance over the beaches. Particular emphasis to be placed on the period from H Hour to H plus 2, when friendly field artillery will not be set up ashore; and period H plus 5-1/2 to H plus 6-1/2, to assist 36th Infantry Division assault on Beach 264A.

(3) Beach obstacles and defenses on Beach 264A and road leading from Beach 264A to FREJUS, to be bombed by Heavy bombers from 1230 to 1300B.

(4) Enemy light artillery and other military installations which are capable of carrying the planned D Day advance in general.

(b) After H plus 6-1/2 hours, guns still threatening shipping or the ground forces will be attacked, but the bulk of fighter or bomber effort will be diverted to Armed recces to attack any troop or vehicle concentrations moving into the assault area. Prior to H plus 6 armed recces will operate H Hour Restriction Line (Overlay, Incl 2) to alternate armed recce targets, which are DURANCE river bridges (Incl 1). After H plus 6, armed recces will operate outside H plus 6 Restriction Line (Overlay).

(c) The balance of Heavy bombers not employed on the beaches, plus a turn-around on all Medium bomber groups, will be employed on bridges across the RHONE - ISERE - DURANCE rivers.

(4) For specific targets see Incls 1 and 2.

(5) Call missions will be requested by any available means of communication to Division Headquarters. Such missions will require diversion of missions from scheduled targets and a minimum of 2-1/2 hours must be expected before execution, if target is located within applicable Restriction Line. If target is outside Restriction Line, missions will be briefed in the air by forward controller or Headquarters ship and execution within 30 minutes may be expected.

c. Fighter planes will maintain standing patrol over the beaches beginning at 0550B. A patrol of 6 additional Spitfires will be furnished between 0600B and 0800B as additional low cover over the assault area.

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4. Air Mission after D Day
   a. Day and night fighter protection of shipping and beaches as long as tactical situation requires.
   b. Targets of opportunity to be attacked by scheduled flights operating under forward controller.
   c. Prearranged missions requested through 7th Army Air Support Control.
   d. Communication targets in rear of battle area.

5. Tac/R and Arty/R as requested by G-2. Planes will operate over assault area commencing 0635B on D Day.

6. PRU located at airfields in CORSICA initially.

O'DANIEL
COMDG

OFFICIAL:

CONNOR
G-3

Incls - 1 - Detailed attack schedule
2 - Overlay

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Auth: CG 34 Inf Div
*Init: *
*Date: 1 Aug 1944 *
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HQ 3D INF DIV REINF
NAPLES, ITALY
1 AUG 1944

APPENDIX 1
To
ANNEX #8 (FO #12)

DETAILED ATTACK SCHEDULE

CORPS TOT No (Overlay)	AERIAL OBJ NO.	LOCATION	TARGET	NO & TYPE A/C EACH MISSION	TIME ON TARGET	BOMB LOAD
	1-Y	Any gun flashes in area S2555 to S2550 to S3159 to S5060 (S256523)		4 F/B	Fr 0550 to 0610	
	2-Y	Any gun flashes in area S2353 to S2450 to U5931 to U5636 (S234512)		4 F/B	Fr 0550 To 0610	
	3-Y	Any gun flashes in area U5831 to U5606 to U5320 to U4823(U551252)		4 F/B	Fr 0550 To 0610	
	4-Y	Any gun flashes in area U4823 to U4117 to U4414 to U5418 (U518176)		4 F/B	Fr 0550 To 0610	
	5-Y	Any gun flashes in area U5418 to U5015 to U5008 to U5408 (U516103)		4 F/B	Fr 0550 To 0610	
	6-Y	Any gun flashes in area U4810 to U5308 to U5708 to U3802 (U412052)		4 F/B	Fr 0550 to 0610	
	7-Y	Any gun flashes in area U2905 to Z3296 to Z095 to U2002 (Z276954)		4 F/B	Fr 0550 to 0610	
	8-Y	Any gun flashes in area Z1964 to Z1084 to Z1099 to U2001 (Z121836) (If no flashes seen by 0610 designated strong points will be bombed as alternates)		4 F/B	Fr 0550 to 0610	
1	9-Y 48-D	Z276958	4 120mm CD	4 F/B 4 F/B 6 F/B 6 M/B	0615 0635 0640 0935 1510 0650 0710 0725	Incendiary " 2 x 1000 Incendiar Demo
2	10-Y	Z121888	2 105mm CD 1 155mm CD	4 F/B 6 M/B	0620 0635 0655 0715 0725	Incendiar Incendiar Demo
3	11-Y 37-D	U546259	3 220mm CD	4 F/B 6 M/B 4 F/B	0610 0625 0645 0650 0710 0725 0905	Incendiar Incendiar Demo 2 x 1000

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CORPS TOT No (Overlay)	AERIAL OBJ NO.	LOCATION	TARGET	NO & TYPE A/C EACH MISSION	TIME ON TARGET	BOMB LOAD
4	12-Y 24-D	U497171	4 How CD	4 F/B 6 M/B 4 R/P (F/B)	0630 0650 0700 0730 0930	Incendiary Incendiary Demo
5	13-Y	S205513	5 150mm CD	4 F/B 6 M/B	0610 0630 0650 0705 0715 0730	2 x 1000 Frag/Demo
6	14-Y 36-D	S236526	6 DP	4 F/B 6 M/B 4 F/B	0615 0640 0700 0710 0725 0805	Incendiary Incendiary Demo 2 x 1000
7	15-Y 66-D	S274542	4 DP	4 F/B 6 M/B 4 F/B	0620 0655 0705 0720 0815	Incendiary Incendiary Demo 2 x 1000
8	16-Y 17-D	U496122	4 103mm DP	4 F/B 6 M/B 4 F/B	0620 0640 0655 0710 0725 0800	2 x 1000 Frag/Demo 2 x 500
9	17-Y	Z185869	4 164mm CD	4 F/B	0610 0625 0640 0700 0715	Incendiary
10	18-Y 20-D	U522180	1 CD	4 F/B	0610 0620 0640 0655 0710 0725 0900	Incendiary 2 x 500
11	19-Y 21-D	U523179	2 CD	4 F/B 4 R/P (F/B)	0615 0620 0625 0655 0725 0830	Incendiary
12	20-Y 25-D	U525177	1 CD	4 F/B 4 R/P (F/B)	0610 0615 0625 0640 0710 0930	Incendiary
13	21-Y 71-D	U441148	4 150mm CD	4 F/B	0620 0635 0650 0705 0720 0955	2 x 1000
14	22-Y	U442136	2 Lt CD	4 F/B	0640 0655 0725	2 x 1000
15	23-Y 26-D	U599365	4 105mm CD	4 F/B	0615 0630 0645 0700 1000	2 x 1000
16	24-Y	S263536	2 Lt CD	4 F/B	0620 0650 0710	2 x 1000
17	25-Y 35-D	S223510	2 Lt CD	4 F/B	0615 0635 0700 0805	2 x 1000

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CORPS TYP NO (Over-lay)	AERIAL OBJ NO.	LOCATION	TARGET	NO & TYPE A/C EACH MISSION	TIME ON TARGET	BOMB LOAD
18	26-Y 65-D	S225515	2 Lt CD	4 F/B	0610 0625 0655 0815	2 x 1000
19	27-Y	S328527	4 Lt CD	4 F/B	0625 0645	2 x 1000
20	28-Y	S248527	2 CD	4 F/B	0630 0650	Incendiary
21	29-Y	S214518	4 CD	4 F/B	0620 0700 0720	2 x 1000
22	30-Y	U516092	4 150mm CD	4 F/B	0610 0625 0640 0655 0710 0725	2 x 1000
23	31-Y 42-D 70-D	U448178	2 CD	4 F/B	0615 0630 0645 0700 0715 0730 0845 0850	Incendiary
24	32-Y	U601337	4 Lt CD	4 F/B	0650 0710 0725	2 x 1000
25	33-Y 25-D	U604337	2 Lt CD	4 F/B	0630 0700 0720 1000	2 x 1000
26	34-Y	S334692	4 149mm	4 F/B	0655 0715 0730	2 x 1000
27	35-Y	U521165	4 CD	4 F/B	0650 0705 0720	2 x 1000
28	36-Y 22-D 69-D	U448107	4 CD	4 F/B	0630 0645 0700 0715 0730 0845 0900	2 x 1000
29	37-Y	U500156	2 Lt CD	4 F/B	0650 0705 0720	2 x 1000
30	38-Y	Z135998	4 150mm CD	6 M/B	0710 0730	Incendiary Demo
31	46-Y	Z152855	2 CD	4 F/B	0635	Incendiary
32	47-Y	Z170854	4 155mm	4 F/B	0645	Incendiary
33	48-Y 50-D	U529334	2 LtFld	4 F/B	0645 1020	Incendiary
34	49-Y	U256032	4 CD	4 F/B	0705	2 x 1000
35	50-Y	U514340	4 Fld	4 F/B	0705	2 x 1000
36	51-Y 39-D	U439122	4 Lt CD	4 F/B 4 F/B	0715 0850	2 x 1000 Incendiary
37	52-Y 34-D	U533256	4 CD	4 F/B 6 F/B	0730 0755	2 x 1000 2 x 1000
38	53-Y 40-D 72-D	U402163	2 Lt CD	4 F/B	0730 0850 0955	Incendiary
39		U341026	2 CD	4 F/B	0610 0620 0630 0645	

(To be attacked by missions diverted from other targets at scheduled times, only if specifically directed by Headquarters Ship)

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CORPS TOT No (Over-Lay)	AERIAL OBJ NO.	LOCATION	TARGET	NO & TYPE A/C EACH MISSION	TIME ON TARGET	BOMB LOAD
40	18-D	U434104	4 CD	4 F/B	0800	2 x 500
41	19-D 68-D	U441118	2 CD	4 F/B 4 R/P (F/B)	0825 0830	2 x 1000
42	33-D	U502220	4 DP	6 F/B	0755	2 x 1000
43	38-D	U545303	4 CD	4 F/B	0805	2 x 1000
44	41-D	U465190	2 CD	4 F/B	0850	Incendiar
45	43-D	U514336	4 CD	6 F/B	0910 1210	Incendiar
46	44-D	U507376	4 Lt CD	6 F/B	0910 1210	Incendiar
47	45-D 73-D	U575394	4 Lt CD	4 F/B	0935 1130	2 x 1000
48	46-D 74-D	U554370	4 CD	4 F/B	0935 1130	2 x 1000
49	47-D	U287014	4 Lt CD	4 F/B 6 F/B	0935 1510	Incendiry 2 x 1000
50	49-D	U529372	4 CD	4 F/B	1020	Incendiry
51	51-D	U362095	3 CD	4 F/B	1020	2 x 1000
52	52-D	U439156	Strong Pt	4 F/B	1020	2 x 1000
53	53-D	U520374	4 Lt CD	6 F/B	1040 1340	Incendiary
54	54-D 58-D	U515328	4 Fld	6 F/B 4 F/B	1040 1340 1105	Incendiary
55	55-D	U509381	4 Lt CD	4 F/B	1105	2 x 1000
56	56-D	U520366	4 Lt CD	4 F/B	1105	2 x 1000
57	57-D	U532372	4 Lt CD	4 F/B	1105	Incendiar
58	59-D 89-D	Z120938	Rd Bridge	6 F/B 4 F/B	1640 1800 2000	2 x 1000
59	60-D 88-D	Z115995	Rd Bridge	6 F/B 4 F/B	1640 1800 2000	2 x 1000
60	61-D 64-D 86-D	S300631	Rd Bridge	6 F/B 4 F/B	1810 1940 1700 1900	2 x 1000
61	62-D 87-D	S306633	Rd Bridge	6 F/B 4 F/B	1810 1700 1900	2 x 1000
62	63-D 84-D	S305651	Rd Bridge	6 F/B 8 F/B	1940 1500	2 x 1000
63	67-D	U524095	Strong Pt	4 F/B	0825	2 x 1000
64	75-D	U559307	Strong Pt	4 F/B	1300	2 x 1000
65	76-D	U561351	Strong Pt	4 F/B	1300 1405	2 x 1000
66	77-D	U541319	Strong Pt	4 F/B	1310	2 x 1000

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COMPO TGT No (Overlay)	AERIAL OBJ NO.	LOCATION	TARGET	NO & TYPE A/C EACH MISSION	TIME ON TARGET	BOMB LOAD
67	78-D 81-D	U585345	Strong Pt	4 F/B	1310 1330	2 x 100
68	79-D	U559321	Strong Pt	4 F/B	1320	2 x 100
69	80-D	U551342	Strong Pt	4 F/B	1320	2 x 100
70	82-D	U554335	Strong Pt	4 F/B	1330 1400	2 x 100
71	83-D	U615574	Rd Bridge	8 F/B	1400	2 x 100
72	85-D	Z134977	Rd Bridge	8 F/B	1600	2 x 100
	39-Y	Beach 259		160 M/B	Between 0700 & 0730	Frags & 100LB D
	40-Y	Beach 261		120 M/B	"	"
	41-Y	Beach 263A		40 M/B	"	"
	42-Y	Beach 263B		40 M/B	"	"
	43-Y	Beach 263C		40 M/B	"	"
	44-Y	Beach 264B		60 M/B	"	"
	45-Y	Beach 265A		124 M/B	"	"
	1-D 2-D	Beach 264A		60 M/B	Between 1230 & 1300	"
		Road - Beach 264A to FREJUS (Two last listed missions will hube a 4000 yard phase line for troops approaching from land side up to 1300 hours)		30 M/B	"	"
	3-D	N850204	Pont St Esprit rd bridge	30 M/B	1300	
	4-D	N880419	Donzere Pont St Fusseluc rd bdg	30 M/B	1330	
	5-D	N878450	Viviers rd bdg	30 M/B	1415	
	6-D	N871528	Latiol rd bdg	30 M/B	1445	
	7-D	O-010957	Valence rd bdg	30 M/B	1530	
	8-D	N843325	Bourg St Andiol bdg	30 M/B	1600	
	10-D 13-D	O-8918	Sisteron [illegible] bdg & rd bdg	36 M/B	1600 1615	
	11-D	S844559	Arles rd bdg	36 M/B	1615	
	12-D	S892797	Arnaud rd bdg	36 M/B	1615	
	14-D	S949997	Roquemaure rd bridge	36 M/B	1615	
	15-D	S862699	Tornscon rd bridge	36 M/B	1630	
	16-D	S978864	Avignon rd bridge	36 M/B	1630	

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CODE WT No Over-Lay)	AERIAL OBJ No.	LOCATION	TARGET	NO & TYPE A/C EACH MISSION	TIME ON TARGET	BOMB LOAD
	27-D	Sisteron (U-3918) to Pertius (T-5957)	Railcuts	8 M/P	1200 1330	
	28-D	Pertius (T-5957) to Aix (T-5141)	Railcuts	8 M/P	1430	
	29-D	Aix (T-5141) to (T-8036)	Railcuts	8 M/P	1600 1800	
	30-D	Avignon (S-9787) to Miramis (T-1546)	Railcuts	8 F/B	1830	2 x 500
	31-D	Arles (S-8557) to Miramus (T-1546)	Railcuts	8 M/P	1900	
	32-D	Meyrarques (T-5054) to Draguignan (U-3147)	Railcuts	8 F/B 8 M/P	1930 2000	

Following are alternate targets for Armed Recces, to be flown from Restriction Line Orlando to alternate targets, bombing any large enemy concentrations. Times indicated are time over alternate target.

90-D	S985825	Rd Bridge	8 F/B	1230	2 x 1000
91-D	T548563	Rd Bridge	8 F/B	1245 1630 1815	2 x 1000
92-D	T073797	Rd Bridge	8 F/B	1345	2 x 1000
93-D	T685600	Rd Bridge	8 F/B	1415 1645 1845	2 x 1000
94-D	T166733	Rd Bridge	8 F/B	1430	2 x 1000
95-D	T980616	Rd Bridge	8 F/B	1445 1715 1945	2 x 1000
96-D	T285638	Rd Bridge	8 F/B	1515	2 x 1000
97-D	U302755	Rd Bridge	8 F/B	1530 1730 2015	2 x 1000
98-D	T440613	Rd Bridge	8 F/B	1545	2 x 1000

Fighter-bomber and Medium-bomber missions prior to H-hour will be assigned alternate targets from the following:

LOCATION	TARGET	LOCATION	TARGET	LOCATION	TARGET
515141	4 75mm CD	U516245	Strong Point	U519144	Strong Point
741076	4 CD	U440076	Strong Point	U439156	Strong Point
391041	4 CD	U535345	Strong Point	U559307	Strong Point
340702	4 155mm CD	S214512	Strong Point	U559321	Strong Point
405066	CD	S256528	Strong Point	U411060	Strong Point
124667	3 75mm CD	S257532	Strong Point	U411056	Strong Point
515103	Strong Point	S259535	Strong Point	U541319	Strong Point
515219	Strong Point	U528252	Strong Point	S264538	Strong Point
561351	Strong Point	U522250	Strong Point	U553334	Strong Point
				U551342	Strong Point

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* "W" after Aerial Objective Number indicates AO number in Operation YOKUM. "D" after Aerial Objective Number indicates AO number in Operation DACROT.

Code: F/B - Fighter Bombers
M/B - Medium Bombers
H/B - Heavy Bombers
R/P - Rocket Projector Planes
CD - Coast Defense Guns
DP - Dual Purpose Guns

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BOMB SAFETY LINE
EFFECTIVE D-4
COAST LINE

INCLOSURE #2 TO ANNEX #8 TO FO #12 (ANVIL)
HQ 36 INF DIV
6 AUG 1944
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AUTH: CG, 3D INF DIV (REINF)
*INIT: *
*DATE: 1 August 1944 *
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HQ 3D INF DIV REINF
NAPLES, ITALY
1 August 1944

ANNEX 9
To
FIELD ORDER 12

ANTI-TANK INSTRUCTIONS

1. a. Counterattack by small detachments of enemy armor or SP Guns is possible by H / 60.

   b. By late afternoon enemy may be able to employ 20 - 30 tanks in the Div Sector.

   c. Terrain favors enemy armored attack from NORTH and NORTHEAST on RED Beach and from WEST on YELLOW Beach.

   d. Support by naval gunfire against enemy armor assembly areas or attacks can be requested during daylight hours.

   e. Air support against enemy armored counterattack is available. Dive bombers may be briefed in the air by Corps Air Officer on request thru Div Air Officer.

2. All troops will be disposed to meet enemy armored counterattack at any time with particular attention to NE & E of RED Beach and WEST on YELLOW Beach (See attached overlay).

3. a. Infantry

   (1) Local all-around anti-tank recon at all times with special attention to possible routes of approach as shown on attached overlay, and maximum advantage taken of all tank-proof terrain.

   (2) All available organic Inf AT Wpns will be utilized to maximum extent possible.

      (a) TD teams (Bazookas) will be employed with leading elements.

      (b) 57mm AT Guns will be displaced forward rapidly as each successive objective is reached and will be employed to protect Inf elements in their advance to next objective.

      (c) Primary mission of Cn Co initially will be AT if tanks are reported in Regtl sector. Cn Co's will recn and be prepared to occupy direct fire positions for AT defense on order of Regtl CO's.

      (d) Mine sweeping teams from A & P Plats in addition to normal sweeping, will be prepared to sweep routes of forward displacements for tanks and TDs. Platoons will advance with leading elements prepared to reduce AT barriers.

   (3) Every possible effort must be made to conceal each standing vehicle taking maximum advantage of all available cover and concealment.

   (4) Tank and TD Plats attached to Inf Regts will be properly disposed and prepared at all times to engage and destroy enemy armor that may succeed in penetrating the forward positions.

   (5) Mines other than deliberate minefields laid by or under supervision of Engrs will be employed only when it appears that the Div will take up static defensive positions and only on Div order.

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b. Artillery

(1) Div Arty will open observed fires on enemy armor on call.

(2) Until 601st TD Bn is assembled ashore 69th Armd FA will be prepared to occupy direct fire positions to meet a tank attack.

c. Tanks

756th Tank Bn (-) on assembling in area shown on opns map will initiate Rcn of all probable enemy armored routes of approach, will be prepared to move on order to positions to meet enemy tank attack or to counterattack enemy infantry.

d. Tank Destroyers

(1) 601st TD Bn (-) on assembling in areas shown on opns map will initiate immediate reconnaissance on landing for positions covering likely tank approaches and be prepared to occupy these positions on order.

(2) (a) 1 TD from 3d Plat, A Co supports 3d Bn 7th Inf in assault landing and assists in capture of CAVALAIRE SUR MER and the establishment of road blocks on Hwy 559 Vic Div beachhead line. 1 TD from 3d Plat, A Co, supports 2nd Bn 7th Inf in assault landing and assists in capture of Obj's LA CROIX and GASSIN and the establishment of road blocks on Hwy 559 Vic GASSIN. Remainder Co A (-) will assemble in area indicated and will be prepared to support advance of 7th Inf and attached armored elements by fire and movement on call.

(b) 1 TD from 2nd Plat B Co supports the 1st Bn 15th Inf in its assault landing and assists in capture of RAMATUELLE and establishment of road block to the SOUTH. 1 TD from 2nd Plat B Co supports the 3d Bn 15th Inf in its assault landing and assists in capture of high ground and establishment of road block Vic ST AMES. Remainder of B Co (-) will assemble in area indicated Vic DOMAINE and will be prepared to support advance of 15th Inf and attached armored elements by fire and movement on call.

(3) 2 Platoons Co C initially in reserve RED Beach. 1 Plat initially in reserve on YELLOW Beach will assemble in areas indicated. C Co when assembled will be prepared to support 30th Inf.

(4) If C Co has not assembled at time 30th Inf moves forward in its attack, a composite Co from Co A and Co C will support the attack.

e. 10th Engineer Bn

Establish AT minefields and road blocks when ordered by CG 3d Inf Div.

4. Tank and TD units will maintain communications by liaison with Div Hq and with units to which attached. Cub planes sighting enemy tank assembly area will drop a colored smoke grenade within visible range of our troops and dive and zoom in direction of assembly area. Infantry will indicate daylight armored attacks by firing a 60mm flare (Illuminating) in the direction from which enemy tanks are approaching. Any observer seeing this flare will report location of flare to next higher headquarters. 60mm illuminating flares will be employed to illuminate during hours of darkness areas where enemy tanks are heard. When TDs and Tank guns commence firing on targets, mortar squads will give priority to mission of keeping target area illuminated until enemy armored attack has been stopped.

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* S E C R E T
*AUTH: CG, 3d Inf Div (Reinf)
*INIT:
*DATE: 1 August 1944
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HQ THIRD INF DIV (REINF)
NAPLES, ITALY
1 AUGUST 1944

ANNEX 10
To
FIELD ORDER #12

AA ARTILLERY

1. Anti-Aircraft units supporting 3rd Inf Div in operation ANVIL include:

5th AAA Group / 441st AAA AW Bn (SP)
534 th AAA AW Bn
72nd AAA Bn
104th Barrage Balloon Btry

2. Above units will move as directed by 3d Inf Div and supply Anti-Aircraft protection for 3rd Inf Div on Operation ANVIL.

3. a. 5th AAA Group will land on beach RED and control anti-aircraft defense of 3rd Inf Div landing beaches RED and YELLOW.

b. 441st AAA AW Bn (SP) (Less Btry C, less 1 Plat Btry B) will land on beach RED and set up anti-aircraft defense of landing beach. Upon direction from 5th AAA Group, 441st AAA AW Bn (SP) will move to give close support to 3rd Inf Div Arty including all attached artillery. Btry C and 2nd Plat Btry B 441st AAA Bn will land on beach YELLOW and provide anti-aircraft protection to beach. Will move with remainder of Bn to close support of 3rd Inf Div Arty on 5th AAA Group order.

c. 534th AAA AW Bn, less Btry B, will land on beach RED and provide AA protection to landing beaches until relieved by 5th AAA Group order. Btry B will land on beach YELLOW and provide AA defense to landing beach until relieved by 5th AAA Group order.

d. 72nd AAA Bn, less Btry's C & D, will land on beach RED and position as directed by 35th AAA Brigade to provide AA defense of landing beach. Btry's C & D will land on beach YELLOW and position as directed by 35th AAA Brigade to provide AA defense of landing beaches.

e. 104th Barrage Balloon Btry will land 18 balloons from LCT's on beach RED, position on beach for AA defense. Will land 12 balloons on beach YELLOW from LCT's position on beach for AA defense.

f. 1st Plat, 21st Cml Co (Decon) will furnish smoke on landing beaches of 3rd Inf Div as requested by CO, 5th AAA Group, through Beach Group Commander.

x. (1) The following rules for control of anti-aircraft defense are prescribed for operation ANVIL.

(2) (a) D Day - Special Rules

1. Time: -from H-8 hours until 2130B (1930GMT) on the evening of D Day.

2. Special belt:-between a line 12000 yards seaward of the coast and a line 5000 yards seaward of the coast.

3. Restriction to AA fire both afloat and ashore.

a. Outside the special belt. Antiaircraft artillery will not fire at aircraft outside the belt in 2. above unless it commits a hostile act or is recognized as hostile.

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b. Inside the special belt. Antiaircraft artillery may fire at any aircraft inside the belt in 2. above not recognized as friendly that flies below 3000 feet altitude. Antiaircraft artillery will not fire on aircraft above 300 feet inside the belt unless it commits a hostile act or is recognized as hostile.

4. Restriction to Allied Aircraft:

a. Within the belt described in 2. above Allied aircraft will fly above 5000 feet altitude.

b. Seaward of the 12000 yard line Allied aircraft will conform to the Mediterranean Area rules governing aircraft in the vicinity of ships at sea.

c. Landward of the 5000 yard line Allied aircraft may fly at any altitude.

(b) At Night - General Rules

1. Time:-from 2130B (1930 GMT) on the evening of D Day until 0550B (0350 GMT) of D plus 1 and everynight thereafter between these hours, until changed by Air Task Force Commander.

2. Extent:-an area whose seaward limit is 12000 yards from the coast, whose landward limit is 12000 yards inland from the coast and extending along the coast between lines 12000 yards outward from the limits of beach activity.

3. Restrictions to AA fire both afloat and ashore:- The area described in 2. above will be an IAZ between the hours listed in 1, above. (See AFHQ Air Defense Instruction No. 1, dated 15 September 1943).

(c) In Daytime - General Rules after D Day

1. Time:- from 0550B (0350 GMT) of D plus 1 until 2130B (1930 GMT) of D plus 1 and every day thereafter between these hours.

2. Extent:- an area inclosed by a line 12000 yards to seaward of the coast, a line 3000 yards inland from the coast and extending along the coast between the points where the bombline cuts the coast.

3. Restrictions to AA fire both afloat and ashore.

a. Antiaircraft Artillery may fire at any aircraft in the area described in 2. above not definitely recognized as friendly that flies below 3000 feet.

Antiaircraft Artillery will only fire at aircraft flying above 3000 feet in this area if the aircraft commits a hostile act or is recognized as hostile.

b. Antiaircraft Artillery ashore will not fire at aircraft outside the area described in 2. above unless it commits a hostile act or is definitely recognized as hostile. Ships to seaward of this area will obey the normal rules for antiaircraft.

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4. Restrictions to Allied Aircraft:-

Within the area described in 2. above Allied aircraft will fly above 5000 feet altitude.

(d) Minor warships, Merchant ships and craft - Special Instructions

Fire from Minor Warships, Merchant ships and Craft is totally prohibited both by day and night against aircraft flying within 12000 yards of the assault coast unless the ship herself is being directly attacked with torpedoes, bombs or by fighter aircraft. Outside 12000 yards from the assault coast normal rules for minor warships, merchant ships and craft apply except during the approach on D Day - see paragraph (2) (a) and (3) (a).

(3) Smoke

(a) The Naval Commander is responsible for control of smoke covering the shipping in the anchorage.

(b) The Beach Group Commander is responsible for control of smoke covering the beaches and small ports.

(c) The Antiaircraft Defense Commander (AADC) is responsible for smok control in major ports, with consent of Navy. This consent is obtained periodically and not for each raid.

(4) Barrage Balloons

(a) Shore barrage balloons will be controlled by the Antiaircraft Defense Commander. Balloons over shipping will be controlled by Naval Commander.

(b) All balloons will be operated normally at an altitude not to exceed 2000 feet.

(c) All balloons will be close hauled to 25 feet when required by the Air Commander for airborne operations, or when specifically agreed for other air operations.

(5) Definition of a Hostile Act

(a) Attacking friendly ground targets, ships or aircraft.

(b) Dropping flares at night.

(c) Diving on troops, ships or vulnerable points.

(d) Use of WINDOW or other forms of radar jamming.

(6) Aircraft will be considered friendly unless they commit a hostile act if:

(a) Recognized as friendly by appearance.

(b) Following a prescribed route.

(c) Displaying correct recognition signals.

(d) Showing correct IFF response.

(e) Landing gear down.

(f) A Bi-plane.

(g) Seaplane, flying boat or float plane.

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(7) Liaison

(a) The CO, SAAA Group will establish liaison with the Beach Group Commander and furnish him early warning of hostile air approach.

(b) As the SAAA Group Hqs will be ashore and established before the Air Force Air Defense Commander, the latter, upon arrival, will establish contact with the CO, 5th AAA Group.

(8) Instructions for AA

(a) Except in the Assault Area, IAZs and GDAs, AAA will fire only on aircraft recognized as hostile unless firing is authorized by a Sector Operations Room operated by the Air Forces.

(b) Enemy aircraft in combat with or being chased by friendly fighter will not be engaged.

(c) Air Observation Posts (O.P.) planes of the Field Artillery will normally be operating below 3000 feet and care will be taken to avoid endangering them.

(d) No weapons smaller than .50 cal. will be fired at aircraft under any circumstances unless attacked.

(e) Parachute mines and glider bombs may be engaged by Automatic Weapons (AW) down to a height of 500 feet provided the angle of elevation insures the safety of friendly installations.

(f) Flares will not be engaged by AAA.

(g) If airborne forces are involved, specific lanes will be designate which will clear all shipping as far as possible. During appropriate periods all AA fire will be prohibited within these lanes in order to permit free passage of troop carrier planes. AAA, ashore and afloat, must be advised well in advance of all airborn movements.

(h) The AADC will:-

1. Provide for reception of early warning broadcasts and receptic of telephone communications from the Air Controller.

2. Assume the duties of Controller in such matters as concern AAA in the absence of communicatiron with Air Controller.

3. Arrange for dissemination to AAA of all Air Intelligence and of all instructions from Controller.

4. Provide communications to each element of AAA.

4. (Omitted)

5. Command Post 5th AAA Group will be established on Beach RED in vicinity of 36th Engr CP at beach control point. Command Posts of 441st AAA AW Bn (SP); 534th AAA Bn; 72nd AAA Bn; 104th BB Btry; and Plat 21st Cml Co (Decon) will be established on beach RED and will make contact with command post 5th AAA Group as soon, and by whatever means are most practicable.

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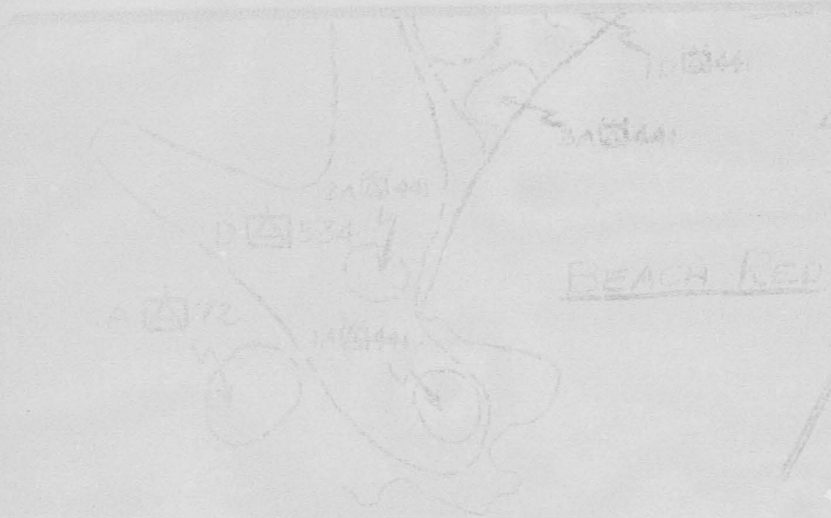
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HQ 3D INF DIV, REINF
APO #3
NAPLES, ITALY
1 AUG 1944

ANNEX #11
To
FO #12

ENGINEER ANNEX

1. Mission: To assist the advance of the Division by the repair; maintenance; and construction of roads; bridges, and by-passes, the removal of mines, wire entanglements, and such other obstacles as encountered.

2. Roads and Bridges: The main supply routes will be:
   a. Route A, Highway 559 which runs along the back of Beach RED to LA CROIX (438907) and then North to the COGOLIN-ST TROPEZ road and East to ST TROPEZ.
   b. Route B, the Highway from RAMATUELLE (473107) East to (502109), North along the highway, about 1,000 yards inland of Beach YELLOW to ST TROPEZ.

3. Water Supply:
   a. Water points will be installed on D Day in each of the regimental combat team areas. The exact location will be sent to G-4 where points are to be installed.

4. Engineer Supply:
   a. The division engineer supply dump will be in the vicinity of (434105).
   b. Only limited amount of fortification materials will be available until D + 5.
   c. A total of 3,000 anti-tank mines and 500 anti-personnel mines will be loaded on Engineer Organic Transportation. Requisitions for mines will be handled through the normal ordnance channels.
   d. Sandbags for the division artillery and attached artillery will be carried on artillery transportation.
   e. Maps can be drawn from the 10th Engineer Bn S-2.

5. Engineer Troops
   a. Co A; 10th Engr Bn, attached to 7th Infantry for initial phase.
      (1) Mission:
         (a) In direct support of the 7th Infantry Regiment for the clearing of mines; repair and maintenance of such roads and bridges as the situation may require.
         (b) Will land two mine detector parties with 3 mine detectors each in the vicinity of (424073) with the Infantry. One party will begin clearing the road of mines SOUTHWEST to CAVALAIRE-SUR-MER. The other detector party will clear the main road NORTHWEST up through LA CROIX and NORTH to the RJ at (441159).
         (c) Road responsibility is the coast Highway # 559 up through LA CROIX to the RJ at (441159). The secondary road running NORTHWEST from the RJ at (440130) to the road junction 800 yds EAST of COGOLIN at (413163).
   b. Co B, 10th Engr Bn, attached to 15th Infantry for initial phase.
      (1) Mission:
         (a) In direct support of the 15th Infantry Regiment for the clearing of mines, repair and maintenance of such roads and bridges as the situation may require.
         (b) Road responsibility is the Highway running EAST from RAMATUELLE (473107) to a point at (502109) where the road runs NORTH to ST TROPEZ and then WEST on the main highway to the RJ at (457157)
         (c) Will land two mine detector parties with 3 detectors each with the Infantry in the vicinity of (513123). One Party will clear the secondary road which runs inland to the RAMATUELLE-ST TROPEZ road and then NORTH on this secondary road to ST TROPEZ for mines

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The other detector party will clear the RAMATUELLE - ST TROPEZ Road SOUTH and WEST to RAMATUELLE.

c. Co C; 10th Engr Bn; attached to 30th Infantry for initial phase.
(1) Mission:
(a) In direct support of the 30th Infantry for clearing the following roads of mines and to repair and maintain these roads:
(1) From the RJ at (429079) SE for 300 yds and then NORTH to LA CROIX.
(2) LA CROIX (438907) - RAMATUELLE (473107).
(3) RAMATUELLE (473107) NORTH to the RJ at (457157) then WEST to RJ at (441159).
(b) Will land one mine detector party with 3 detectors with the Infantry in the vicinity of (430076). This party will clear the secondary road from (429079) EAST to SYLVABELLE; the LA CROIX - RAMATUELLE Road and the road leading NORTH from RAMATUELLE to RJ (457158).

d. 1st Bn; 343 Engr Regt:
(1) Mission:
(a) Take over road maintenance and repair of all supply roads and bridges SOUTH of Highway 98 and EAST of RJ (441159) from the 10th Engr Bn as soon as the unit has landed and received the necessary equipment.

e. Companies A, B, and C will revert to Bn control and be relieved from attachment to the Infantry Regiments as soon as the Bn Headquarters is set up on shore.

f. The Bn CP will be in the vicinity of (434105).

g. Initial assembly area for personnel landing on Beach RED will be in the vicinity of (430082). Assembly area for those landing on Beach YELLOW will be in the vicinity of (502126).

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HQ 3D INF DIV REINF
NAPLES, ITALY
1 AUG 1944

ANNEX #12
To
FIELD ORDER #12

SMOKE EMPLOYMENT INSTRUCTIONS

1. General: Smoke will be furnished by Naval units and Chemical troops during the preliminary phase of the operation to provide maximum screening protection for the beach and boat lanes thereto.

2. Naval Smoke Plan:
   a. Destroyers are prepared to fire WP projectiles at enemy observation posts, beach flank areas and gun positions from H - 60 minutes.
   b. SC Skim Sweepers and Boat Mine Sweepers equipped with M4 smoke floats and LCT's (R) and LCS's, equipped with FS smoke rockets, will provide a screening cover when and as ordered by Naval Unit Commanders.
      (1) Between enemy installations and Line of Departure to protect assault boats from hostile gunfire.
      (2) To windward side and upwind across the front of assault waves when wind is parallel to boat lanes and onshore.
      (3) To windward between Line of Departure and Beach when wind is parallel to boat lanes and onshore.
   c. Besler type smoke generators mounted on Control Crafts (LCC's) will be utilized to provide beach flank protection from observation vicinity CAP CAVALAIRE and CAP LARDIER, Red Beach, and CAP CALARAT and CAP ST TROPEZ, Yellow Beach, and general screening cover for ship transport area.

3. Instructions for Use of Smoke Ashore:
   a. Chemical troop assignment: One officer and 15 men will be assigned to each of the 4 LCT's in the first wave.
      Red Beach - 1st Plat, 21st Cml Co (Decon)
      Yellow Beach - Det, 3d Cml Battalion
   b. Equipment
      (1) Each assault LCT of the first wave will be provided with 120 Pots, Smoke, M1, which will be off-loaded at the beachhead.
      (2) An additional 2,000 smoke pots will be made available at Red Beach at approximately H ∠ 3 hours. Smoke pots carried on trucks will be dumped at the de-waterproofing area and will be collected by the 63rd Cml Depot Co.
   c. Phases of Operation:

      PHASE ONE: Pre-landing and immediately thereafter to H ∠ 10 minutes.
      (1) Pre-landing to H Hour: Smoke from Naval units afloat as outlined in Naval Plan to screen movement of assault craft to beach when and as ordered by Naval Unit Commanders.
      (2) H Hour to H ∠ 10 minutes:
         (a) Immediately on beaching of LCT's at H Hour, four smoke pots will be ignited by smoke details sufficiently to windward and upwind of craft to cover disembarkment and landing of tanks and TD's. All smoke pots on craft will then be unloaded and carried above high tide line of beach.
         (b) Smoke crews will move rapidly to smoke stations as indicated on attached sketch. Each man will carry a minimum of 2 smoke pots. On arrival at smoke stations one man will be assigned to each smoke point to ignite one pot to initiate haze screen for beach protection and maintain the smoke screen while others return to beach for additional pots. Supply of smoke pots at the smoke stations will then be built up until all pots have been carried from the beach.

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(c) Smoke will be employed dependent upon wind direction as shown in Paragraph 3 d below.

PHASE TWO: Protection of beach area until such time as hostile observation of beach has been taken off.

(1) Each smoke detail will establish and maintain liaison with its respective beach group upon its arrival on the beachhead and will continue smoke haze screen until otherwise ordered by Beach Group Commander.

(2) Additional smoke pots necessary to continue the screen will be obtained at Beach Dumps to be established by 63rd Chemical Depot Co.

PHASE THREE: Protection of beaches against air attack by means of smoke.

(1) At all times after initial protective haze screen has been cancelled by Beach Group Commander, smoke pots will be kept at each smoke point on the beach ready for firing to provide protective smoke in case of Red Air Alert when wind direction is offshore or parallel to beach, to be fired on order of CO 5th AAA Group through Beach Group Commander.

(2) In addition smoke pot installations will be fired daily from 1815 - 2030B to provide area haze against probable hostile air attack unless otherwise ordered by the Beach Group Commander or CO 5th AAA Group.

d. Wind Direction Smoke Pot Firing Table: Smoke pots to be fired based upon wind conditions at the beach in accordance with the following table:

WIND DIRECTION	RED BEACH	YELLOW BEACH
N	A, B, C, D*	F, G*
NE	A, B, C	F, G, H
E	A, B, C, D	E, H
SE	A, B, C, D	E, F, G, H
S	A, B, C, D	E, G
SW	A, B, C	E, F, G, H
W	A, B, C, D	E, H (Normal screen) F, G (light haze)
NW	A, D (Normal smoke) B, C (light haze)	E, F, G, H

* Letters designate smoke stations on beach as shown on attached sketch.

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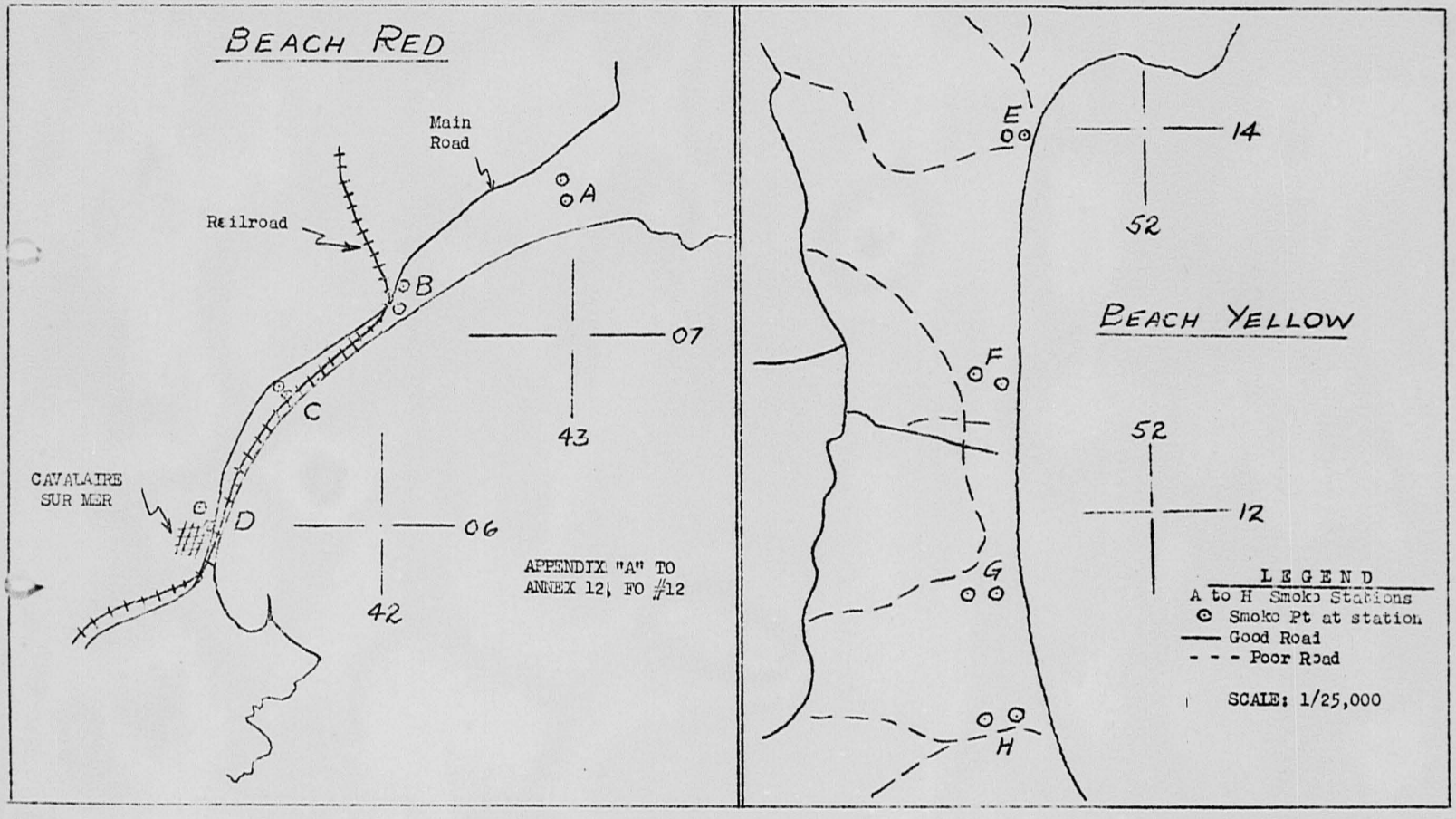
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1 Incl - Sketch (Appendix A)

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*Auth. CG 3d Inf Div *
*Init: *
*Date: 1 August 1944 *
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ANNEX #3
to
FIELD ORDER #12

HQ 3D INF DIV REINF
NAPLES, ITALY
APO #3
1 AUGUST 1944

SHORE ENGINEER INSTRUCTIONS

1. For Operation ANVIL, the 36th Engineer Combat Regiment, with attachments, will be known as the 36th Engineer Beach Group. The mission of the Beach Group is to support the landing of the 3rd Infantry Division (Reinf) followed by Corps and Army Troops and supplies.

2. The following units comprise this Beach Group:
   a. 36th Engineer Combat Regiment
   b. 1st Naval Beach Battalion
   c. 72nd Signal Company (Special)
   d. 52nd Medical Battalion
   e. 616th Clearing Co (- 1 Plat)
   f. Co A, 759th MP Co
   g. Detachment, 377th PW Escort Guard Co
   h. 157 MP Det (Boat Guards)
   i. Plat, 21st Cml Co (Decon)
   j. Det, 63rd Cml Depot Co
   k. Plat, 450th Engr Depot Co
   l. 69th Ord Ammo Co
   m. 3407th Ord (MM) Co (DUKW)
   n. Det; 77th Ord Depot Co
   o. Det, 6690th Regulating Co (Traffic)
   p. 52nd QM Battalion
   q. Sec; 3856th QM Co (GS)
   r. Plat, 93rd QM Rhd Co
   s. 530th QM Sv Battalion
   t. 332nd Sv Group (AAF)
   u. 111th Beach Unit (RAF)
   v. Det; 207th Sig Depot Co
   w. Det, 177th Sig Repair Co
   x. 379th QM Port Battalion
   y. 382nd QM Port Battalion
   z. QM Port Battalion
   aa. 3634th QM Trk Company
   bb. QM Trk Company
   cc. 706th MP Det (Boat Guards)
   dd. MP Det (Boat Guards)

3. The Beach Group is subdivided as follows:
   a. Sub-Beach Group Red A (CO; Capt Joseph A. Lombard, 3d Bn, 36th Engr C Regt.
      (1) 3rd Bn, 36th Engr (C) Regt with attachments.
   b. Sub-Beach Group Red B (CO, Capt Paul Terretta, 1st Bn, 36th Engr C Regt.)
      (1) 1st Bn, 36th Engr C Regt with attachments.
   c. Sub-Beach Group Yello (CO, Lt Col Maximilian J. B. Welker, 2d Bn, 36th Engr (C) Regt).
      (1) 2nd Bn, 36th Engr (C) Regt with attachments.
   d. Beach Group Headquarters (CO, Col Mark M. Boatner) 36th Engr C Regt (less 3 Bns)(Plus attachments). See attached Orgn Chart to APPENDIX A which defines specific duties of all component parts.

4. a. Supplies will be issued initially by Beach Group S-4 according to priorities as set by CG 3rd Inf Div. Later supplies will be issued as prescribed by SEVENTH ARMY.

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b. No supplies will be issued directly from the beach; supplies will first be processed through beach dumps.
c. Beach Group vehicles will not be commandeered. If such vehicles are urgently needed they will be requested from the Beach Group or Sub-Beach Group Commanders at the Beach Group or Sub-Beach Group CP.
d. Within the limits authorized by G-2, 3d Inf Div, Sub-Beach Group commanders may utilize properly guarded prisoners if casualties and/or flow of supplies demand additional labor. (Before decision is reached to employ prisoners, all sources of Allied labor personnel must be exhausted and a clearance obtained from the Beach Group Commander.)
e. Vehicles will not debark until signalled from the shore to do so.

5. a. Units attached to the Beach Group or to Sub-Beach Group, will promptly report locations of CP's and reconnoiter and check previously selected map-located, dumps. No permanent or semi-permanent dumps will be established except with approval of S-4 Beach Group.

6. a. Subject to orders from the Commanding General, 3rd Inf Div, the CO 36th Engr (C) Regt, as Beach Group Commander, is, upon landing, in command of all activities on RED and YELLOW beaches. His decisions as to movement of vehicles, personnel and supplies across the beaches and into beach dumps on assembly areas will be obeyed.
b. The Beach Group Commander is responsible for the local security of beaches and beach dumps.
c. It is necessary for the efficient operation of the beaches that only persons engaged in necessary work be allowed on the beaches or in the vicinity of the beach dumps. All other personnel, commissioned or otherwise, will stay off the beach and away from the beach dumps unless required there by official duties.
d. The Beach and Sub-Beach Commanders are authorized to utilize as additional labor all idle personnel on the beach - men separated from their units and enlisted stragglers, until such time as they can be returned to their organizations.

7. Attached, as APPENDIX B, is an overlay to Map showing a tentative selection of beach dump areas, division of beaches, assembly areas and Beach Group Unit CPs and bivouac areas.

8. A general information office will be located in or in the vicinity of the Beach Group CP.

9. All lost or strayed individual or organizational equipment will be stored in the Class II & IV Depot. Strayed organizational vehicles will be directed to the vehicular assembly area. All strayed, delayed or follow-up personnel will be directed to the troop assembly area where they will be available to parent organization.

10. Water points will be provided on the Beachhead. Units inland should avoid in so far as possible back tracking for water by exploiting local sources under proper supervision.

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2 Incl -
Appendix A. Beach Group Organization.
" B. Overlay of Beach Installations.

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AUTH: CG, 3d Inf Div.
INIT: WHB
DATE: 1 August 1944

Hq 3d Inf Div
Naples, Italy
1 August 1944

Appendix "A"
to
ANNEX No. 13

Duties and Responsibilities

36th Engr Regt & Staff

1. Clear the beach of obstacles remaining after the passage of the assault waves, including removal of beach and shallow underwater mines, obstructions and obstacles.
2. Erect landing and beach markers.
3. Construct landing facilities where required.
4. Construct beach roadways and exit roads.
5. Unload supplies from landing craft and deliver to beach dumps.
6. Select locations for and establish beach dumps, dewaterproofing, bivouac, parking and storage areas.
7. Provide local security and defense for beach areas against small scale attack from land, sea or air. (Defense against major attack must be provided from other sources than Beach Groups.)
8. Maintain situation maps and information centers for units landing over the beaches.
9. Recover stranded vehicles.
10. Coordinate the antiaircraft defense of the beaches with the AAA Group Commander.
11. Establish a prisoner of war enclosure. (P.W. Esct Gd Co)
12. Establish and maintain a bivouac area for staging of replacements or other units landing over the beaches, including messing facilities for all Beach Group personnel and transients.
13. Maintain records showing personnel, organizations, material, vehicles and supplies which have been landed over the beach and be prepared to render such reports to higher headquarters as are required.
14. Operate water points to serve all troops in the vicinity of beaches. This includes transferring water from LSTs to beach tank.
15. Other engineering tasks as required.

21st Chemical

1. Decontaminate all gassed areas in the vicinity of beaches.
2. Prepare the beach smoke plan as directed by the Beach Group Commander.
3. Carry out the beach smoke plan.

G-4 Reports & Statistics; G-4 ops

1. Coordinate dump operations for Beach Group.

63 Chemical Co, 450 Engr Depot, 69 Ordnance (Ammo), 3856 QM Gas Supply, 93 QM Rhd, 332 Service Grp (Air Force Beach), RAF Brick, 207 Signal Depot, QM Cls II & IV Service Co, 77 Ordnance Depot Det.

1. Receive and check into dumps the supplies delivered across beaches.
2. Supervise the orderly segregation of supplies.
3. Issue supplies from beach dumps.
4. Keep a continuous record of the supplies received and issued and be prepared to render to the Shore Regiment Headquarters at any time a statement of receipts, issues and stock on hand.

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1st Naval Beach Bn

1. Mark hazards to navigation in the vicinity of beaches and determine most suitable landing points.
2. Remove underwater mines and obstacles.
3. Direct landing, retraction and salvage of all boats and craft.
4. Effect emergency boat repairs.
5. Care for beach casualties and evacuate casualties to ships.
6. Control boat traffic off the beaches, including DUKWs afloat.
7. Provide and maintain communications with Naval Task Groups and all shipping.
8. Render mutual assistance to the Shore Regiment in removing land mines and obstacles and other beach duties.

72 Signal Co (Spec)

1. Provide, maintain and operate communications from the beaches to:
(a) Beach Group Command. (b) Highest echelon of associated combat units ashore.
(c) Adjacent Beach Groups. (d) Shore Regiment inter-communications to battalions and companies.

815 M.P. Co

1. Furnish guides for personnel and vehicles.
2. Control traffic in the beach and dump areas.

377 P.W. Esct Gd Co

1. Receive and guard prisoners of war.
2. Operation of P.W. enclosures on the beaches.
3. Delousing of P.W.'s.
4. Limited processing and evacuation to ships of P.W.'s.

Boat Guards

1. Aid in guarding prisoners of war in beach enclosures.
2. Aid in evacuating prisoners of war to ships.
3. Furnish ship guards for evacuated prisoners of war.

6690 Regulating Co (Traffic)

1. Provide beach vehicle checkers.
2. Regulate and control Beach Group vehicle movements, including DUKW's ashore.

3407 Ord MM (DUKW)

1. Maintenance of DUKWs.

52 QM Bn

1. Coordination and administration of Amphibious Truck Companies.
2. Handle DUKW and Truck parts.

52 Medical Bn

1. Establish clearing stations in the beach area.
2. Collect wounded in the beach area.
3. Evacuate the wounded to ships, in conjunction with the Naval Beach Battalions, or to planes.
4. Be responsible for local Sanitation.
5. Operate Med Depot (7 days supply).

530 QM Bn

1. Coordination and administration of QM Service Companies.

QM Service Companies

1. Provide additional labor for unloading of supplies, operation of dumps, etc.

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T O P - S E C R E T

Amph. Truck Cos

1. Operate amphibious trucks (DUKWs) required.
2. Maintain and repair DUKWs to the limit of capabilities.

Port Bns

1. Coordination and administration of Port Companies.
2. Operations of stevedore gear room.

Port Cos

1. Furnish hatch crews for unloading of all vehicles and supplies.
2. Furnish DUKW line handlers and loading assistants on ships.
3. Furnish assistance as directed by the Beach Group Commander for dump operations and beach unloading when ashore.
4. Be responsible for the collection and segregation into separate dumps of all port gear unloaded across beaches.
5. Unload as nearly as possible only one class or type of supply into DUKWs and smaller craft.
6. Perform other functions as may be directed by the Beach Group Commander within their capabilities.

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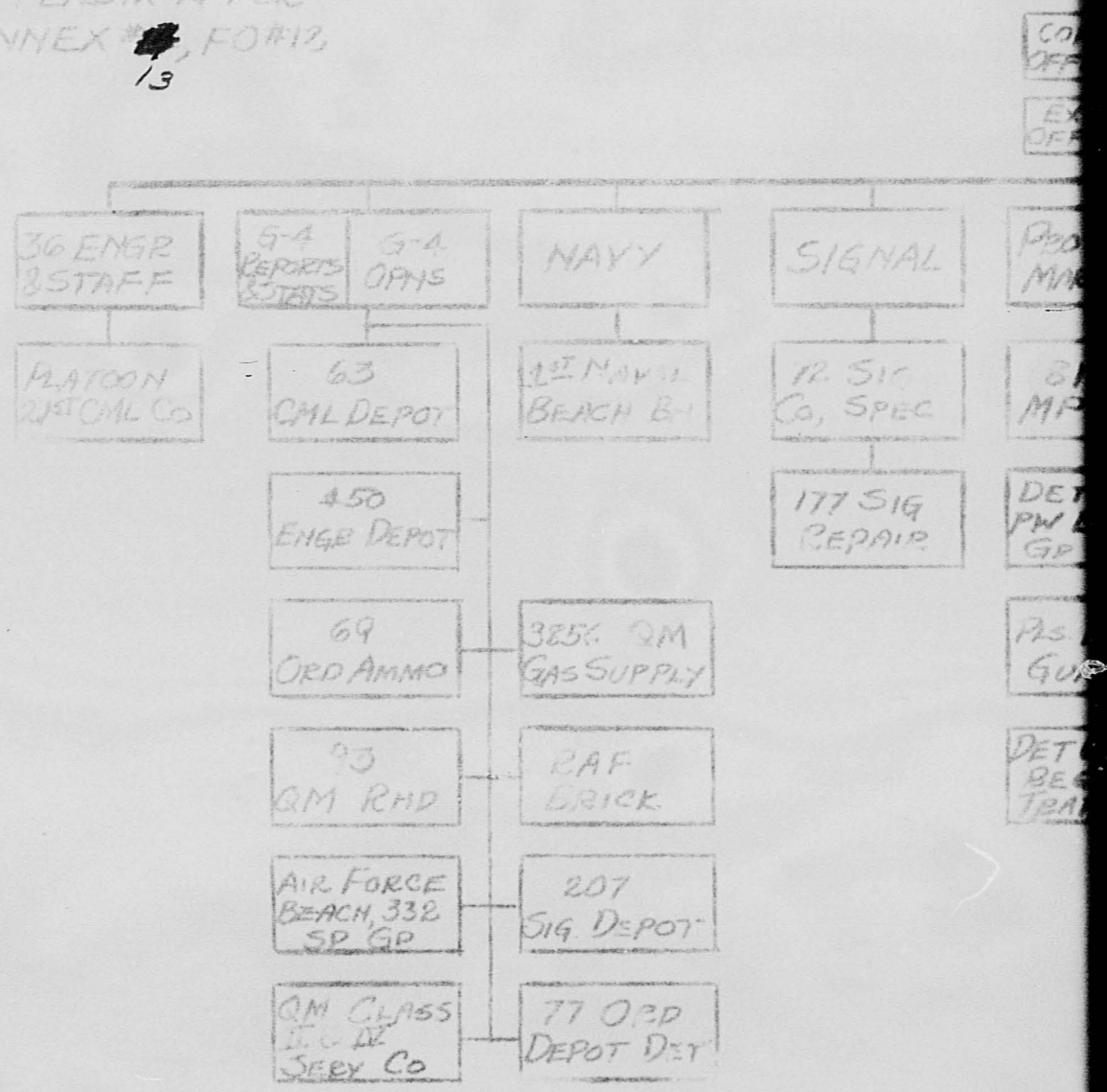
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COMMAND
SHORE ENGINE

CHART TO ACCOMPANY
APPENDIX "A" FOR
ANNEX #[redacted], FO #13

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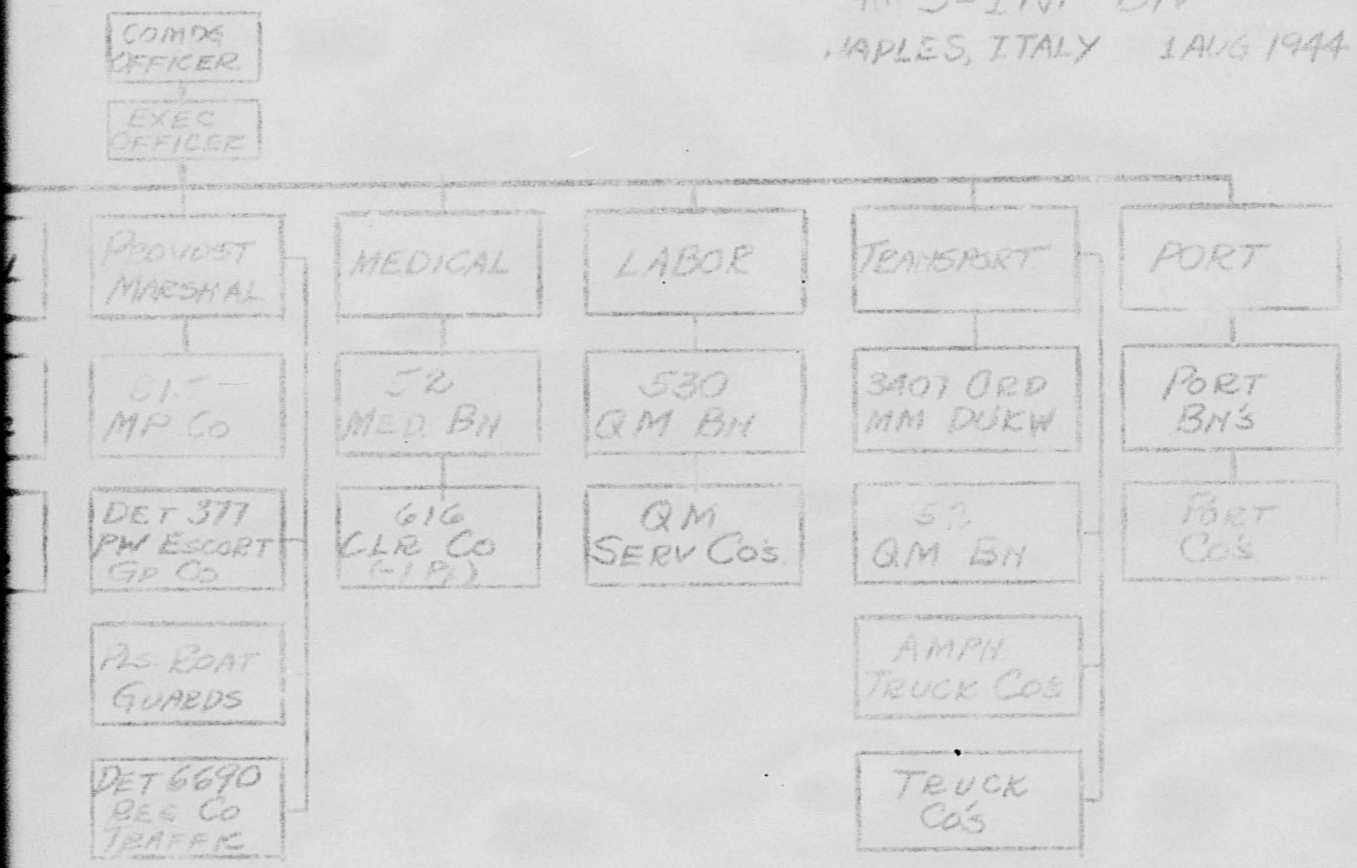
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RESPONSIBILITY
ENGINEER INSTRUCTIONS

HQ 3d INF DIV
NAPLES, ITALY 1 AUG 1944

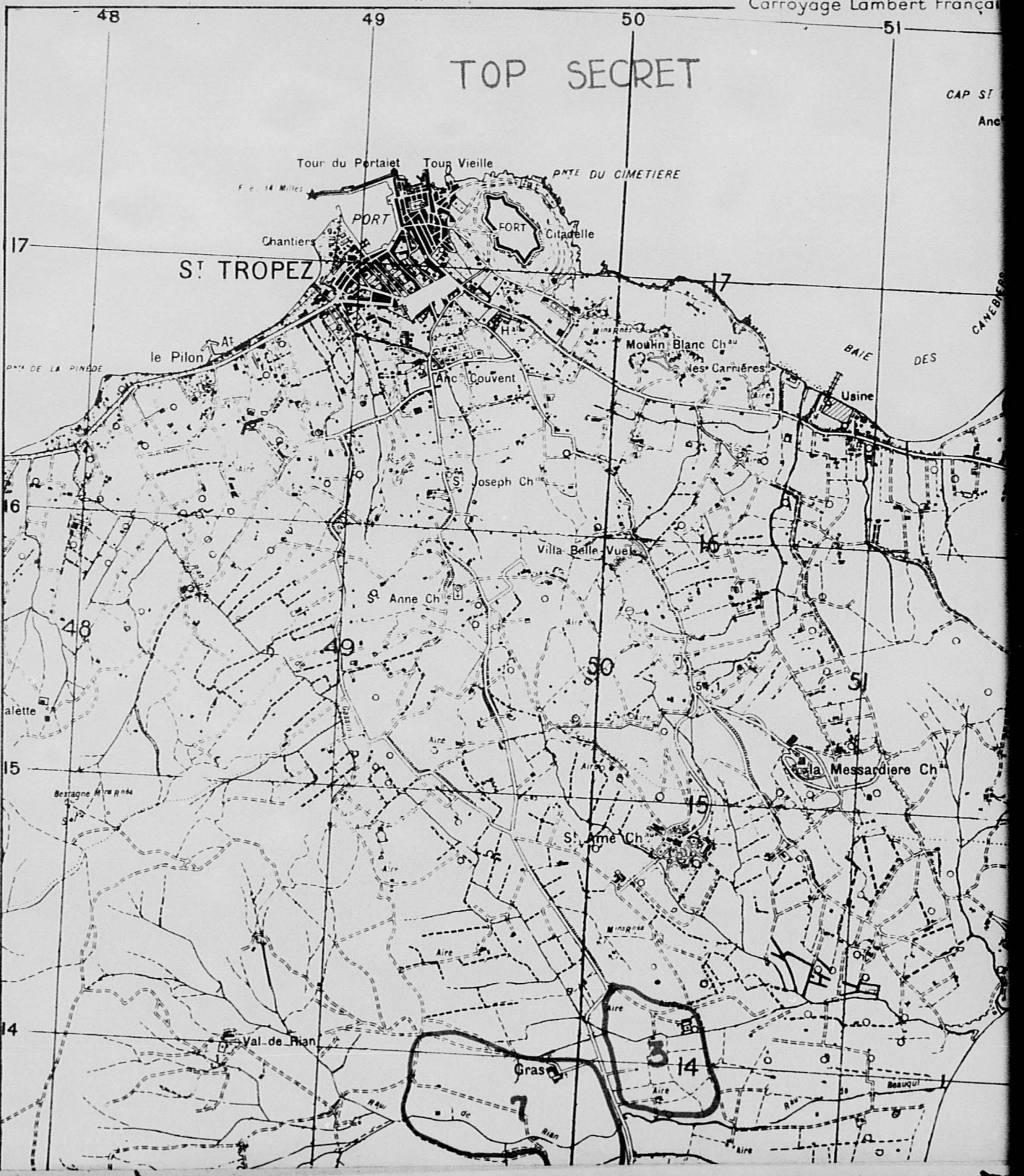


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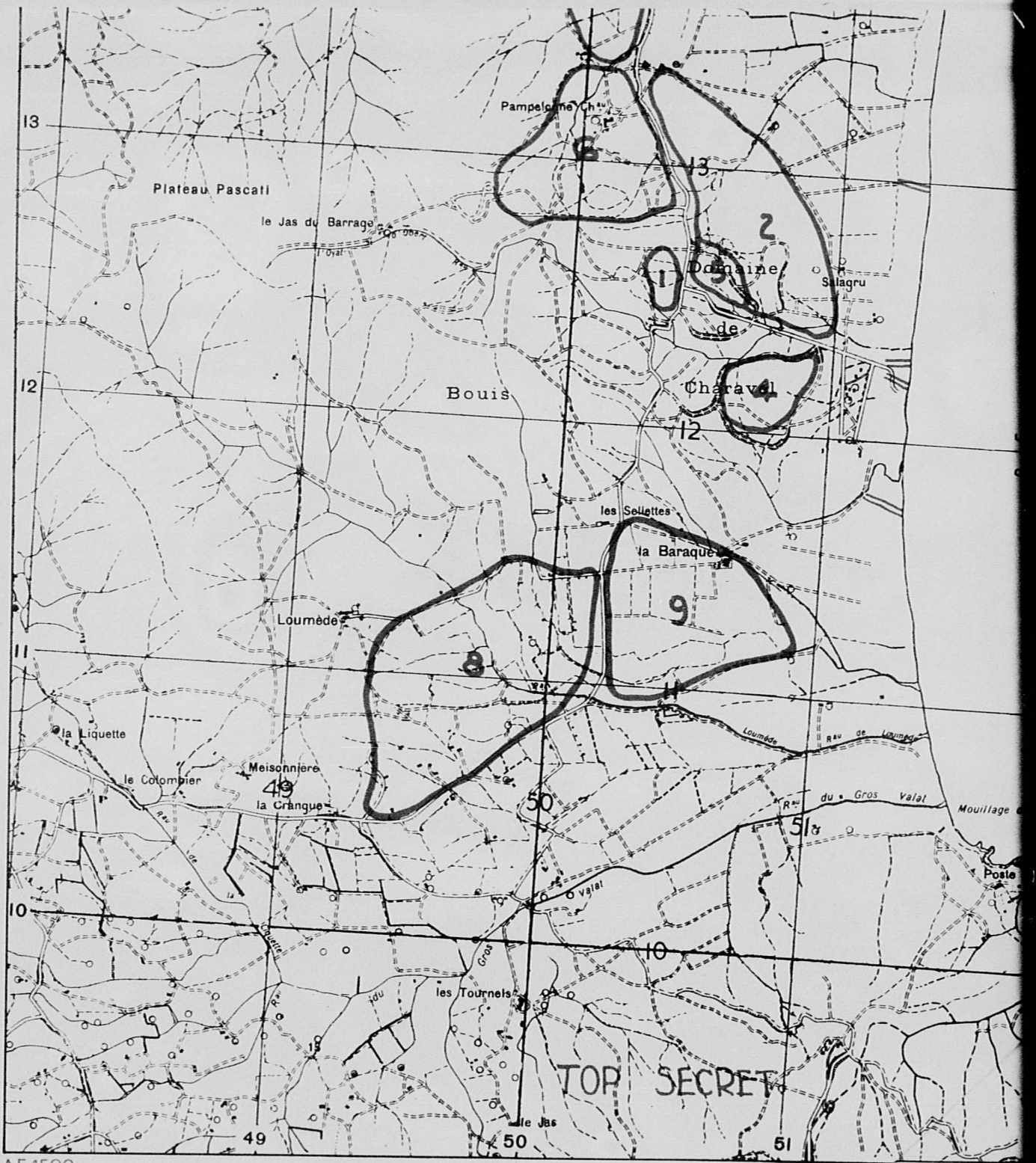


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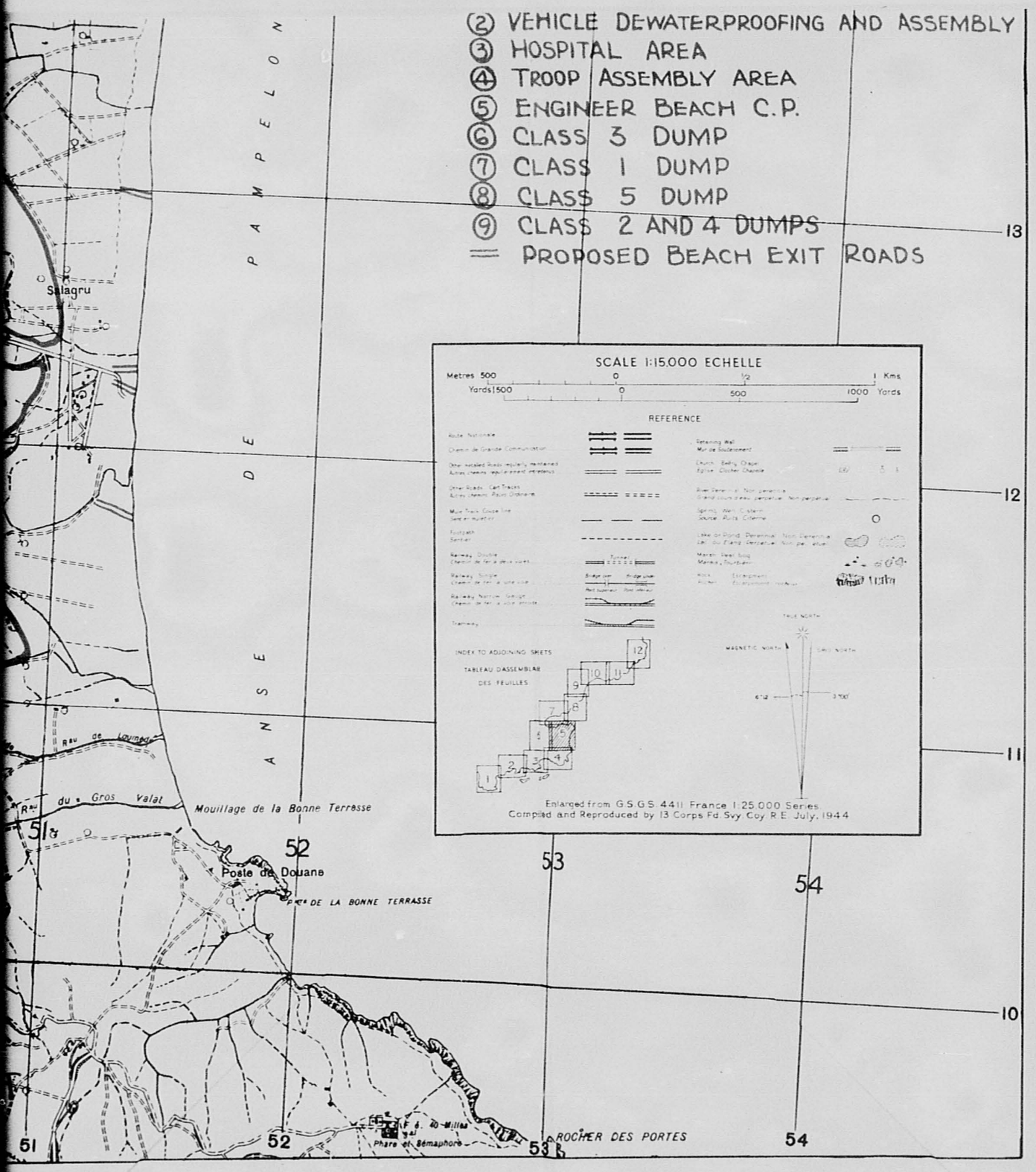


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1:15,000 SPECIAL BEACH MAP.

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Carroyage Lambert Français

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French Lambert Zone III Grid
royage Lambert Français Zone III

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RED BEACH INSTALLATIONS
36TH ENGR C REGT
SHEET Nº 1
LEGEND
① 3D DIV QUARTERMASTER
② 3D DIV ORDINANCE
③ PERSONNEL ASSEMBLY AREA
④ 3D DIV CEMETERY

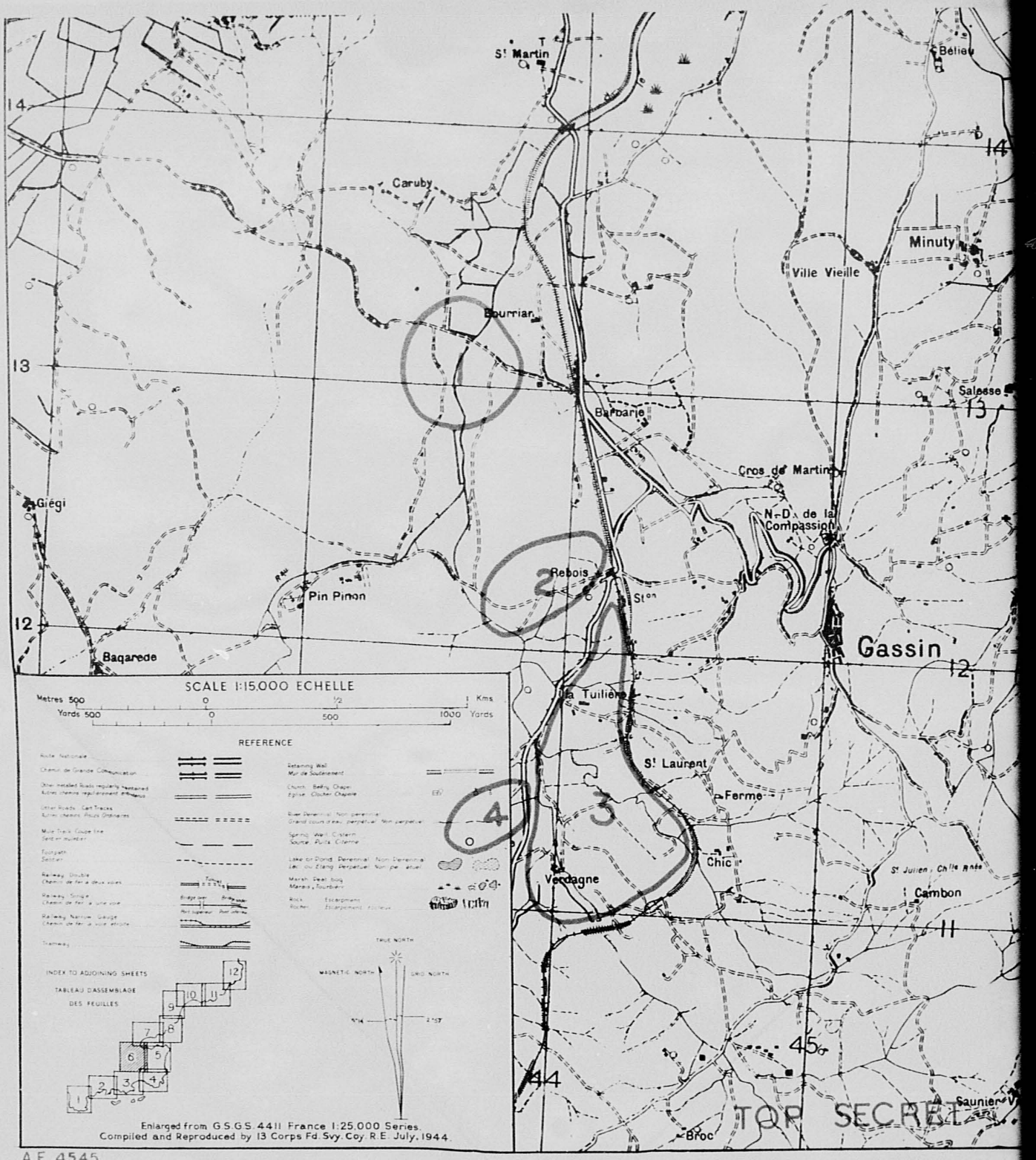
Mures
Bonvallon
Villa Sabi-Pas
Plage
Grimaud
la Bouillabaisse
Bertaud Ch.
Domaine de Bourrian
Baye
Rocan de la Valette
la Citadelle

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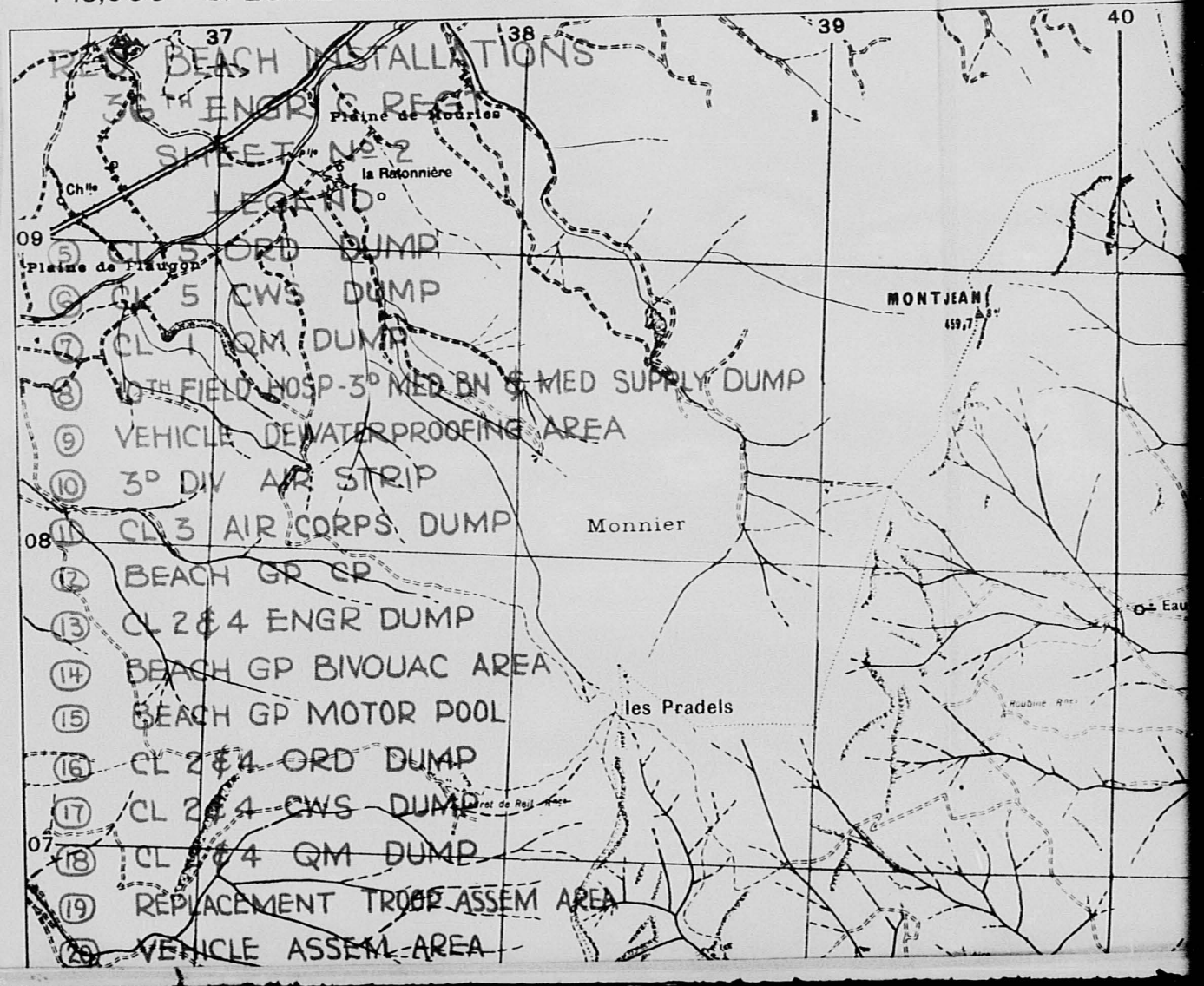
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1:15,000 SPECIAL BEACH MAP.



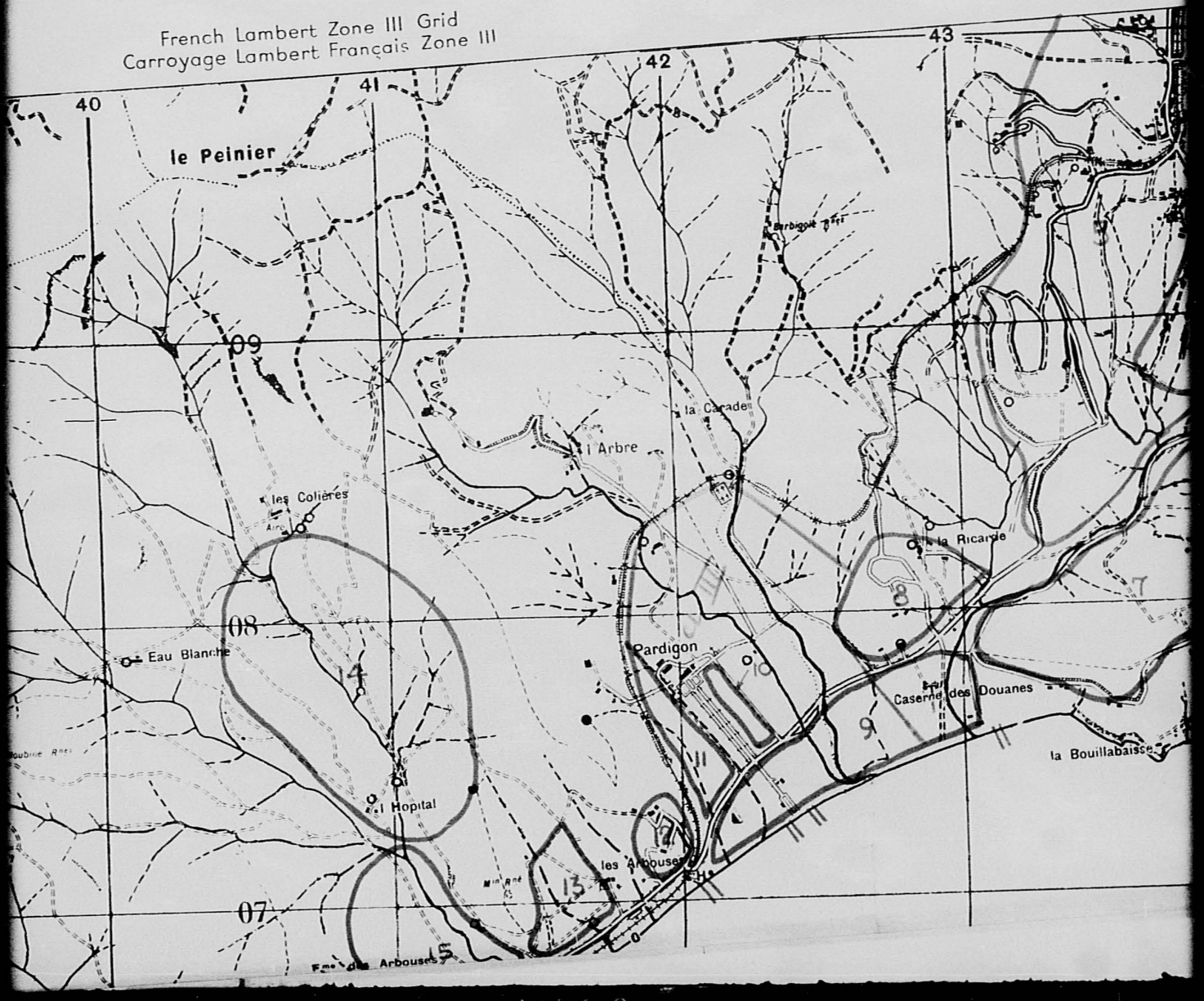
REAR BEACH INSTALLATIONS
36TH ENGR C REGT
SHEET No 2
LEGEND

(5) CL 5 ORD DUMP
(6) CL 5 CWS DUMP
(7) CL 1 QM DUMP
(8) 10TH FIELD HOSP-3D MED BN & MED SUPPLY DUMP
(9) VEHICLE DEWATERPROOFING AREA
(10) 3D DIV AIR STRIP
(11) CL 3 AIR CORPS DUMP
(12) BEACH GP CP
(13) CL 2&4 ENGR DUMP
(14) BEACH GP BIVOUAC AREA
(15) BEACH GP MOTOR POOL
(16) CL 2&4 ORD DUMP
(17) CL 2&4 CWS DUMP
(18) CL 2&4 QM DUMP
(19) REPLACEMENT TROOP ASSEM AREA
(20) VEHICLE ASSEM AREA

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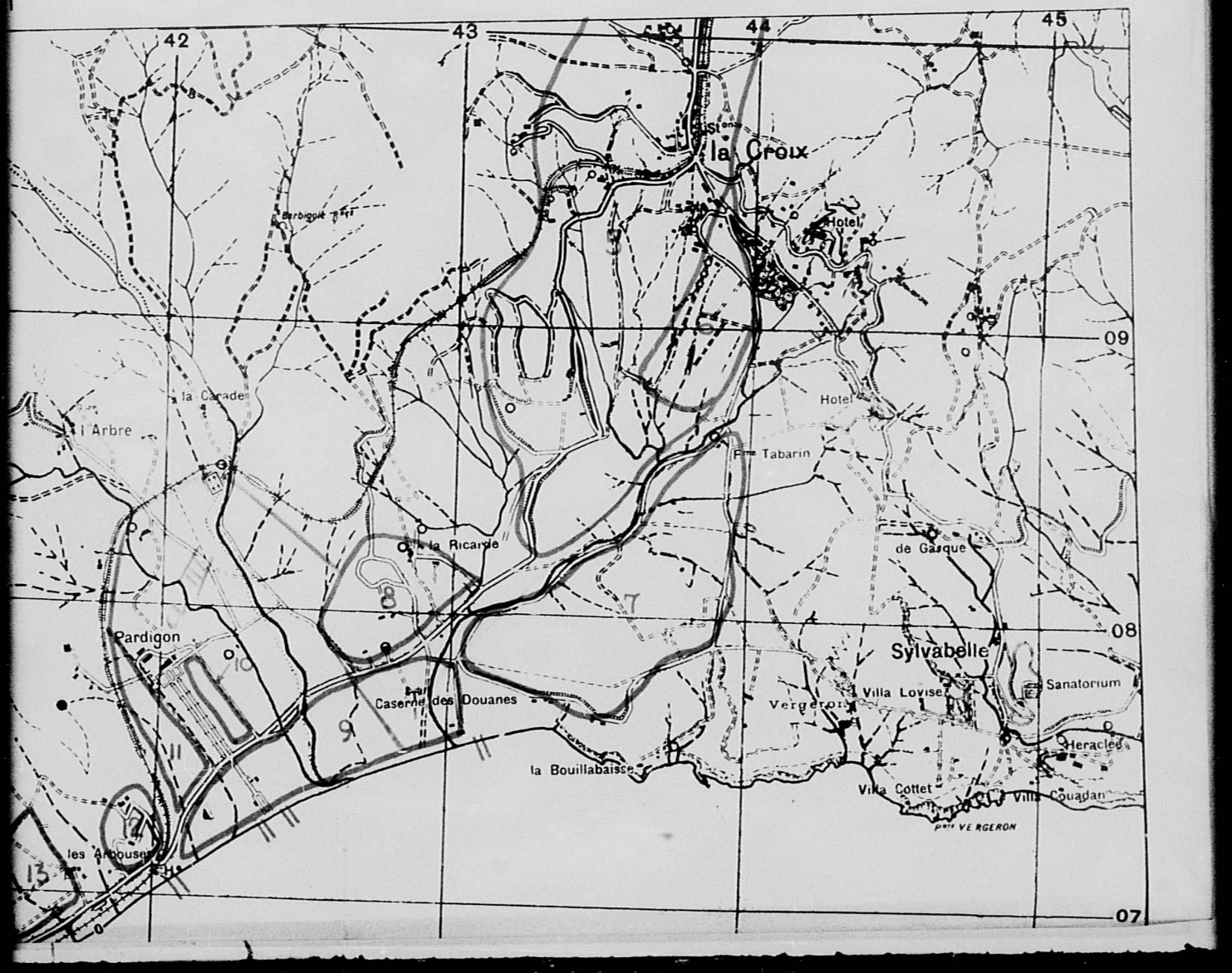


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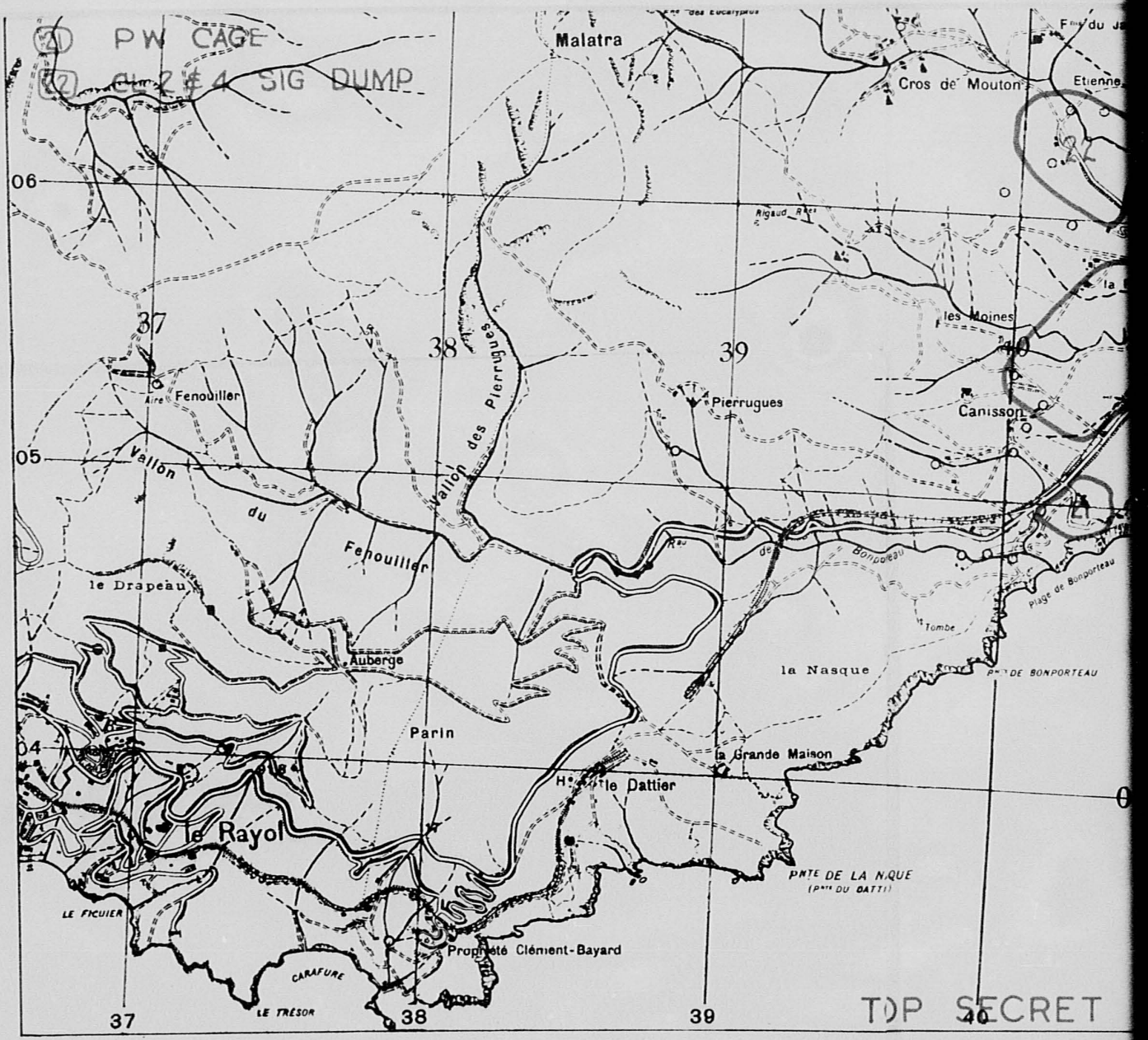
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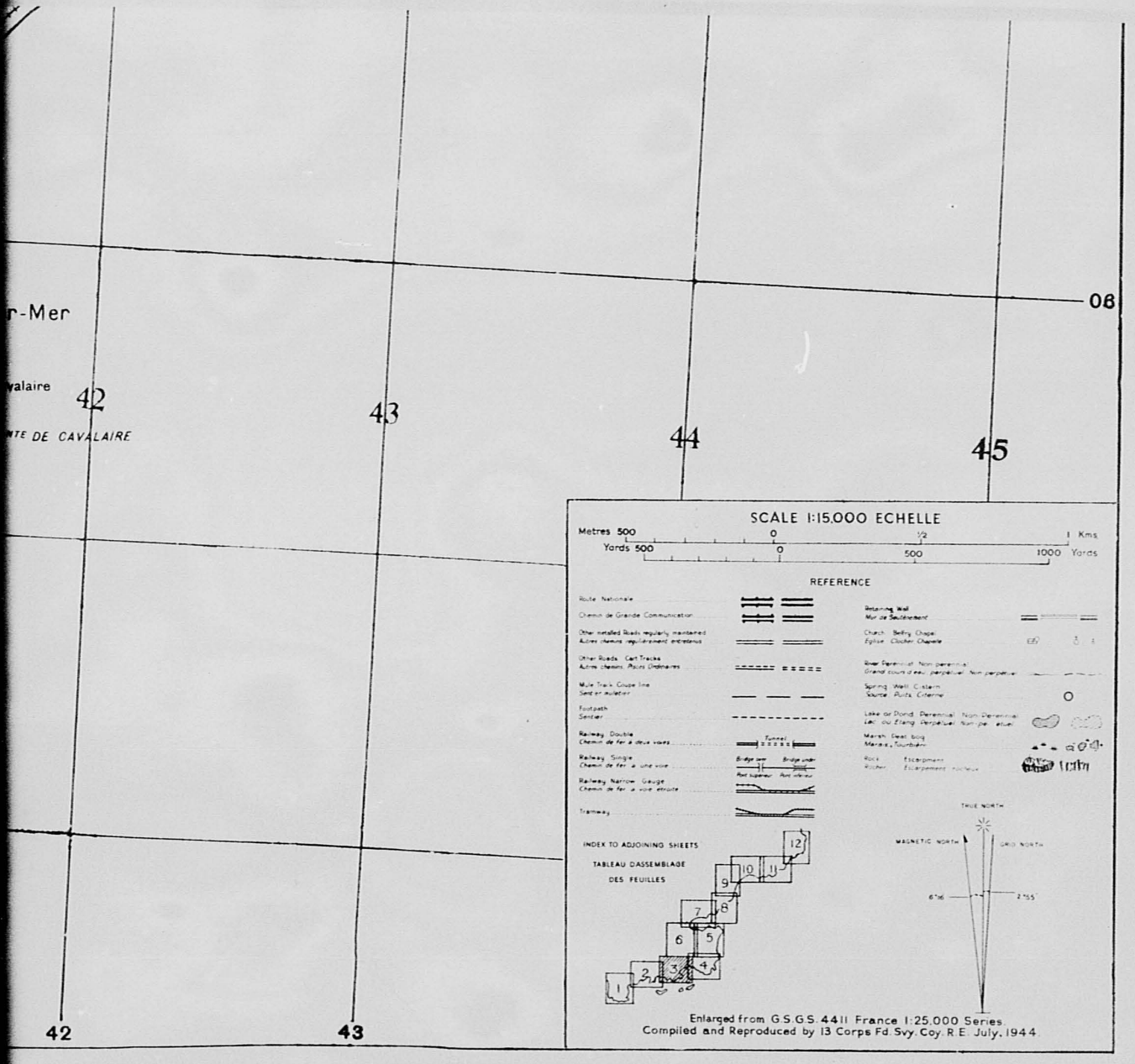


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* S E C R E T *
Auth: CG 3d Inf Div
*Init: *
Date: 1 August 1944

HQ 3D INF DIV
APO #3
1 AUGUST 1944
NAPLES, ITALY

ANNEX 14
TO
FIELD ORDER 12

ALTERNATE PLAN CROSSBOW

1. a. No change.
   b. (1) General Information: Plan CROSSBOW contemplates a landing of the 3d Inf Div (Reinf) on Beach YELLOW. This plan would be put into effect in the event that coastal batteries on the islands of PORT CROS and LEVANT prevented the rendezvous of ships and craft in CAVALAIRE BAY sufficiently close to the mainland to make the ship to shore movement of LCVP's to RED Beach practicable.

2. 3d Inf Div (Reinf)
Lands assault forces on beaches RED and YELLOW and clears them of enemy resistance.

3. a. 7th Infantry (Reinf)
Beach: SOUTH half of Beach YELLOW.
   (1) Land 2 Bns at H Hour to reduce Beach defenses in Regtl zone of action to protect subsequent landings.
   (2) Land remainder of Regt in accordance with landing schedule, advance rapidly to initial beachhead line and destroy enemy in zone
   (3) Occupy initial beachhead line in zone of action with particular attention to Area A, and destroy enemy forces within zone.
   (4) Upon seizure of obj A, advance rapidly seize line XY in zone with particular attention to Areas B and C
   (5) Establish strong road block at point Z to be maintained until 30th Inf is on obj G, and contact has been established.
   (6) Attack from the rear and destroy beach defenses on Beach RED and GREEN and clear without delay enemy forces from CAVALAIRE SUR MER.
   (7) Employ Regtl Battle Patrol to assist in clearance of defenses SOUTH of Beach YELLOW.
   (8) Employ 30th Inf Battle Patrol on right to protect right flank and to maintain contact with 15th Inf.
   (9) Reconnoiter aggressively toward CAPE NEGRE, establish and maintain contact with French Groupe de Commandos in that vicinity.
   (10) Protect Division left flank.
   (11) On Div order advance in zone from line XY seize and hold Div Beachhead line in zone, prepared to continue the advance to the WEST along the Axis of Highway 98 WEST through LA MOLE.

   b. 15th Infantry (Reinf)
Beach: NORTH half of Beach YELLOW.
   (1) Land 2 Bns at H Hour to reduce beach defenses in right zone of action to protect subsequent landings.
   (2) Land remainder of Regt in accordance with the landing schedule, advance rapidly inland to initial beachhead line and destroy enemy forces in zone of action.
   (3) Occupy initial beachhead line in zone of action with particular attention to areas D and E, and hold enemy forces beyond that line.
   (4) Upon occupation of initial beachhead line continue the advance, seize and hold obj F and cut highway at Point W.

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x Init: x
x Date: 1 August 1944 x
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APPENDIX 2 to ANNEX 14 (FO 12)
MAPS: 1/25,000 FRANCE - Sheets-XXXV 46, 1 & 2; XXXV 45, 5 & 6; XXXV 45, 7.

HQ 3RD INF DIV REINF
NAPLES, ITALY
1 August 1944

ARTILLERY ANNEX
ALTERNATE PLAN "CROSSBOW"

1. a. No change.
b. No change.

2. Mission of Artillery:
a. Load Div Arty and attachments on Beach YELLOW in accordance with landing schedule.
b. Support the attack on Division objectives.

3. Missions:
a. 9th FA Bn (155mm M-1 How) - Attached 41st FA Bn.
b. 10th FA Bn (105mm How):
(1) Mission:
(a) Direct support 7th Inf.
(b) Reinforce fire 39th FA Bn on order.
(2) Position area - see Inclosure I, Operations Overlay.
c. 39th FA Bn (105mm How):
(1) Mission:
(a) Direct support 15th Inf.
(b) Reinforce fire 10th FA Bn on order.
(2) Position area - see Inclosure I, Operations Overlay.
d. 41st FA Bn (105mm How):
(1) Mission: Direct support 30th Inf.
(2) Position area - see Inclosure I, Operations Overlay.
e. 69th Armd FA Bn (105mm M-7 SP) - Attached 39th FA Bn.
(1) Position area - see Inclosure I, Operations Overlay.
f. 36th FA Bn (less Btry C)(155mm M-1 Gun):
(1) Mission: General support, reinforcing fires of 3d IDA.
g. Btry C, 36th FA Bn (155mm M-1 Gun) - Attached 634th FA Bn.
h. 634th FA Bn (155mm M-1 How) - Attached 10th FA Bn.
(1) Position area - see Inclosure I, Operations Overlay.
i. 441st AAA AW Bn (SP) land beach YELLOW and set up AA defense of landing Beach. Upon direction from 5th AAA Group, 441st AAA AW Bn (SP) will move to give close support to 3rd Inf Div Arty including all atchd Arty.
x. (1) Center Lines:
(a) 9th FA Bn - Ca 5200.
(b) 634th FA Bn - Ca 4570.
(2) Survey - No change.
(3) Planes - No change.
(4) Liaison - No change.
(5) Metro Messages - No change.

4. No change.

5. a. Axis of Communication - route of advance of 30th Inf.
b. Div Arty Information Center - RJ 5040254.
c. 10th FA Bn is designated NOS for Div Arty command net until Div Arty assumes control.

O'DANIEL,
Comdg.

OFFICIAL:

CONNOR,
G-3.

1 Incl - Operations Overlay.

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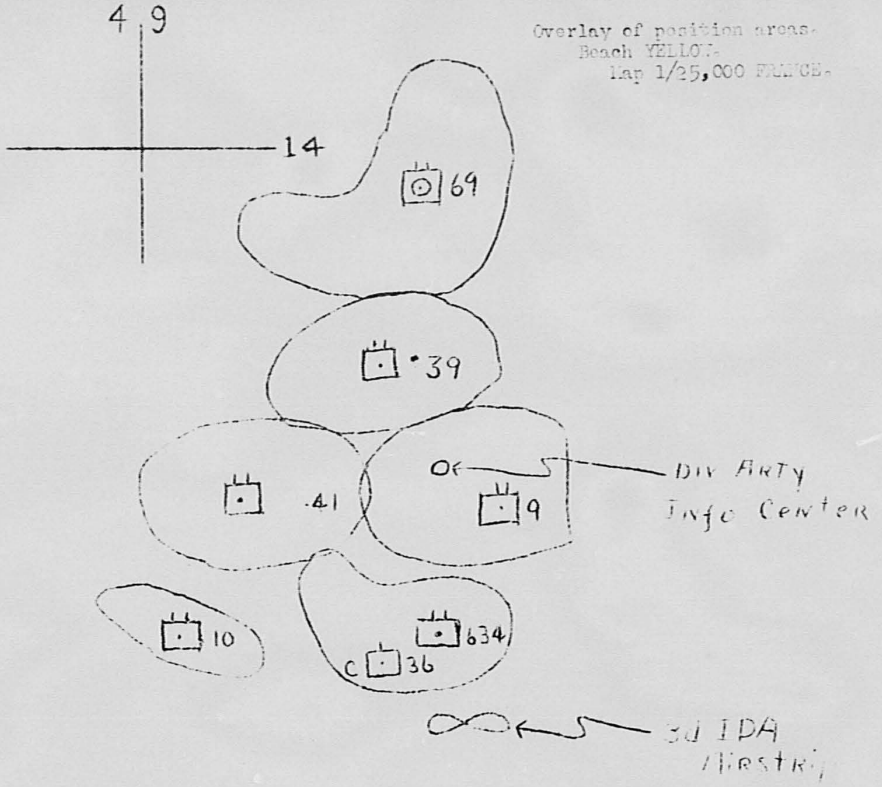
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Inclosure 1 to Appendix C to Annex 14 (FO 12)



Overlay of position areas.
Beach YELLOW.
Map 1/25,000 FRANCE.

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x Init: x
x Date: 1 August 1944 x
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HQ 3RD INF DIV REINF
NAPLES, ITALY
1 August 1944

APPENDIX 3 to ANNEX 14 (FO 12)

AA INSTRUCTIONS
ATTACK ON FORT ENGEBOW

1: No change.

2. No change.

3. a. 5th AAA Group will land Beach YELLOW and control Antiaircraft defense of 3rd Inf Div landing Beach YELLOW.
b. 441st AAA AW Bn (SP) will land Beach YELLOW and set up AA defense of landing beach. Upon direction from 5th AAA Group, 441st AAA Bn will move to give close support to 3rd Inf Div Arty, including atchd Arty.
c. 534th AAA AW Bn will land Beach YELLOW and provide AA protection to landing beach until relieved by order of 5th AAA Group.
d. 72nd AAA Bn will land on Beach YELLOW and position as directed by 55th AAA Brigade to provide AA defense of landing beach.
e. 104th Barrage Balloon Bty will land and fly 30 balloons from LCT's on Beach YELLOW and position for AA defense.
f. 1st Plat, 21st Gas Co(Decon) will furnish smoke on landing Beach YELLOW as requested by CO, 5th AAA Group, through Beach Gp Comdr.

4. (Omitted)

5. Command Post, 5th AAA Group, will be established on Beach YELLOW. Command Posts of 441st AAA AW Bn (SP), 72nd AAA Bn, 534th AAA AW Bn, and 104th BB Bty, will be established on Beach YELLOW and make contact with CP, 5th AAA Group as soon as practicable. CP, 5th AAA Group will be as close as possible to the CP of the Beach Control Commander.

O'DANIEL,
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1 Incl - Position Overlay.

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Date: 1 Aug 1944

HQ 3D INF DIV ARTAF
NAPLES, ITALY
1 AUG 1944

APPENDIX 4
TO
ANNEX 14 (FO 12)

SMOKE EMPLOYMENT INSTRUCTIONS
Doc
ALTERNATE PLAN OVERLORD

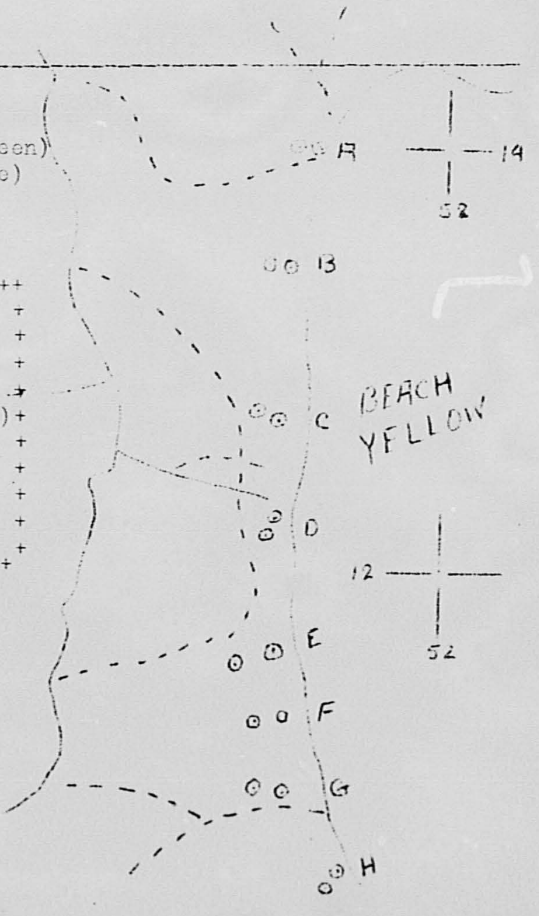
1. No change.
2. No change.
3. a. One Officer and 15 men will be assigned to each of 4 LCT's in 1st Wave:
   7th Inf Sector - 1st Plat 2d Cml Co (Decon)
   15th Inf Sector - Det 3rd Cml Bn
   b. No change.
   c. No change.
   d. All smoke pots at smoke points to be fired except as indicate on sketch (below).

O'DANIEL
COMDG

OFFICIAL:

COMMDR
G-3

WIND DIRECTION	YELLOW BEACH
EAST	A CD G
WEST	AH(Normal screen) DEFG(Light haze)



LEGEND
A - D = Smoke Stations 3rd Cml Bn
E - H = Smoke Stations 21st Cml Bn (Decon)
⊙ = Smoke Pt at Station.
~~~ = Good Road
- - - - = Poor Road
SCALE: 1/25,000

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Date: 1 Aug 44

HQ 3D INF DIV REINF
NAPLES, ITALY
1 AUG 1944

APPENDIX 5
TO
ANNEX 14 (FO 12)

SHORE ENGINEER INSTRUCTIONS
FOR
ALTERNATE PLAN CROSSBOW.

1. No change.

2. No change.

3. The Beach Group is subdivided as follows:
   a. Sub-Beach Group A (CO, Lt Col M.J.B. Walker, 2nd Bn 36th Engr Regt.)
   b. Sub-Beach Group B (CO, Capt Paul Torretta, 1st Bn 36th Engr C Regt).
      (1) 1st Bn, 36th Engr Regt with attachments.
   c. Reserve Sub-Beach Group (CO, J. A. Lombard, 3rd Bn 36th Engr Regt).
      (1) 3rd Bn 36th Engr Regt with attachments.
   d. Same as Beach Plan.

4. No change.

5. No change.

6. a. Subject to orders from the CG of the Task Force, the CO, 36th Engr C Regt, as Beach Group Comdr, is, upon landing, in command of all activities on YELLOW Beach. His decisions as to movement of vehicles, personnel and supplies across the beaches and into beach dumps and assembly areas will be obeyed.
   b. The Beach Group Commander is responsible for local security of beaches and beach dumps. For this purpose the reserve Bn will be held in readiness in case of threatened enemy breakthrough.
   c. No change.
   d. No change.

7. No change.
8. No change.
9. No change.

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COMDG

OFFICIAL:

CONNOR
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Date: 1 August 1944

HQ 3D INF DIV
APO #3
1 AUGUST 1944
NAPLES, ITALY

ANNEX 15
TO
FIELD ORDER 12

ALTERNATE PLAN ARROWHEAD

1. a. No change.
b. General Information: Plan ARROWHEAD contemplates a landing of the 3d Inf Div (Reinf) on Beaches RED and GREEN. This plan would be put into effect on the event that beach obstacles become so formidable on Beach YELLOW prior to D Day as to make the use of that beach impracticable.

2. 3d Inf Div (Reinf)
Land assault forces on beaches RED and GREEN and clears them of enemy resistance.

3. a. 7th Infantry (Reinf)
Beach: SOUTHEAST two-thirds of Beach RED.
(1) Land 2 Bns at H hour to reduce beach defenses in Regtl zone of action to protect subsequent landings.
(2) Land remainder of Regt in accordance with landing schedule, advance rapidly to initial beachhead line and destroy enemy in zone.
(3) Occupy initial beachhead line in zone with particular attention to Areas A and B and hold enemy forces beyond that line.
(4) Employ Regtl Battle Patrol to assist in clearance of beach defenses WEST of Beach RED.
(5) Employ Battle Patrol 30th Inf to protect right flank and to maintain contact with 30th Inf.
(6) Reconnoiter aggressively toward CAPE NEGRE, establish and maintain contact with French Groupe de Commandos in that vicinity.
(7) Protect Div left flank.
(8) On Div order advance in zone from objectives A and B, seize and hold Div Beachhead Line (Annex 1, FO 12) in zone prepared to continue the advance to the WEST along the axis of Hwy 98 WEST thru LA MOLE.

b. 15th Infantry (Reinf)
Beach: NORTHEAST Third of Beach RED and Beach GREEN.
(1) Land 1 Bn at H hour on beach RED and 1 Bn at H Hour on Beach GREEN to reduce Beach defenses in Regtl zone of action to protect subsequent landings.
(2) Land remainder of Regt in accordance with landing schedule, advance rapidly to initial beachhead line and destroy enemy forces in zone of action.
(3) Occupy initial beachhead line in zone with particular attention to area C and hold enemy forces beyond that line.
(4) Employ Regtl Battle Patrol to assist in reduction of coastal defenses EAST of Beach GREEN in Regtl zone.
(5) Employ 3d Rcn Battle Patrol to assist in reduction of coastal defenses between beaches RED and GREEN.
(6) Continue the advance, capture objectives D and F.
(7) Upon occupation of objectives D and F advance and capture objective E and cut COGOLIN - SAN TROPEZ Hwy at Point M.
(8) Establish and maintain contact with 7th Inf on left and with 30th Inf upon their passage through objective D.
(9) Attack and reduce from the rear coastal defenses protecting Beach YELLOW.
(10) Isolate and reduce SAN TROPEZ and destroy with all possible speed enemy forces in SAN TROPEZ Peninsula within Regtl zone of action.

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(11) On Div order assemble in Div reserve vicinity COCOLIN.

c. 30th Infantry (Reinf)
No change.

d. Div Arty
See Arty Annex 2.

e. 3d Recn Troop:
No change.

f. Troop C 117th Cav Recn Sq
(1) Land on Beach GREEN in accordance with landing schedule.
(2) Reconnoiter roads from Beach GREEN to RAFAUELLE thence missions as assigned in Para 3 Intell Annex.

g. 756th Tk Bn (-Co's A and B)
No change.

h. 601st TD Bn (-Co's A and B)
No change.

i. 3d Cml Bn (-Co's A, B and C)
No change.

j. 10th Engr Bn:
No change.

k. Beach Group:
(1) Shore Engr Instr, Annex 5.

x. No change.

4. No change.

5. No change.

O'DANIEL
COMDG

OFFICIAL:

CONNOR
G-3

Appendices
1. Opns overlay
2. Artillery
3. AA Instructions
4. Smoke Employment Instructions.
5. Shore Engr Instructions

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HQ 3RD INF DIV REINF
APO 3
1 August 1944

APPENDIX 2 to ANNEX 15 (FO 12)

MAPS: 1/25,000 FRANCE - Sheets XXXV 46, 1 & 2; XXXV, 45, 5 & 6; XXXV 45, 7.

ARTILLERY ANNEX
ALTERNATE PLAN "ARROWHEAD"

1: a. No change.
b. No change.

2. Mission of Artillery:
a. Land Division Artillery and attachments on Beaches RED and GREEN in accordance with landing schedule.
b. Support the attack on Division objectives.

3. Missions:
a. 9th FA Bn (155mm M-1 How) - Attached 41st FA Bn.
b. 10th FA Bn (105mm How) - Beach RED.
(1) Mission:
(a) Direct support 7th Inf.
(b) Reinforce fires 41st FA Bn on order.
(2) Position area - see Inclosure I, Operations Overlay.
c. 39th FA Bn (105mm How) - Beach GREEN.
(1) Mission: Direct support 15th Inf.
(2) Position area - see Inclosure I, Operations Overlay.
d. 41st FA Bn (105mm How) - Beach RED.
(1) Mission:
(a) Direct support 30th Inf.
(b) Reinforce fires 10th FA Bn on order.
(2) Position area - see Inclosure I, Operations Overlay.
e. 69th Armd FA Bn (less Btry A)(105mm M-7 SP) - Attached 41st FA Bn.
f. Btry A, 69th Armd FA Bn (105mm M-7 SP) - Attached 39th FA Bn - Beach GREEN
g. Btry C, 36th FA Bn (155mm M-1 Gun) - Attached 634th FA Bn.
h. 36th FA Bn (less Btry C)(155mm M-1 Gun):
(1) Mission: General support, reinforcing fires of 3d IDA.
i. 634th FA Bn (155mm M-1 How) - Attached 10th FA Bn.
j. 441st AAA AW Bn (SP)(less Btry C & one Plat, Btry B) will land on Beach RED and set up antiaircraft defense of landing beach. Upon direction from 5th AAA Gp, 441st AAA AW Bn (SP) will move to give close support to 3rd Inf Div Arty, including all attached arty, upon 5th AAA Gp order.
(1) Btry C and 2nd Plat, Btry B, 441st AAA AW Bn (SP) will land on Beach GREEN and provide antiaircraft protection to beach. Will move with remainder of Bn to close support of 3rd Inf Div Arty on 5th AAA Gp order.
x. (1) Center Lines - No change.
(2) Survey - No change.
(3) Planes - No change - All planes land on strip indicated.
(4) Liaison - No change.
(5) Metro Messages - No change.

4. No change.

5. a. No change.
b. No change.
c. No change.

O'DANIEL,
Comdg.

OFFICIAL:

CONNOR,
G-3.

1 Incl - Operations Overlay.

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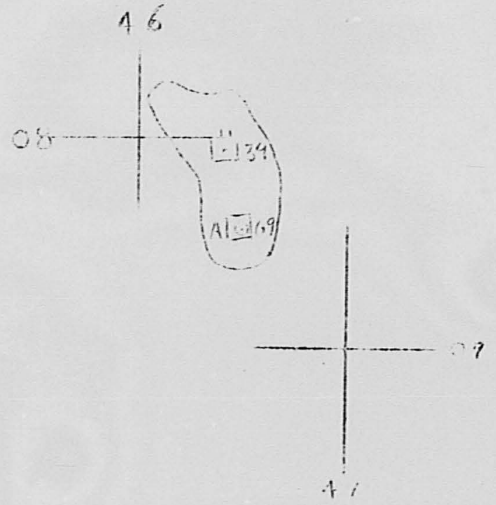
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INCLOSURE 1 to APPENDIX 2 to ANNEX 15 (FO 12)

Overlay of position areas. Beach GREEN.
Map 1/25,000, FRANCE.



Beach RED - No change.

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Date: 1 Aug 1944

HQ 3D INF DIV ARMY
NAPLES, ITALY
1 AUG 1944

APPENDIX 3
TO
ANNEX 13 (FO 12)

AA INSTRUCTIONS
for
ALTERNATE PLAN ARROWHEAD

1. No change.

2. No change.

3. a. 5th AAA Gp will land on Beach RED and control AA defense of 3rd Inf Div landing beaches RED and GREEN.

b. 441st AAA AW Bn (SP)(less Btry C, less 1 Plat Btry B) will land on Beach RED and set up AA defense of landing beach. Upon direction from 5th AAA Gp, 441st AAA Bn will move to give close support to 3rd Inf Div Arty including all attached arty Btry C and 2nd Plat Btry B, 441st AAA Bn will land on Beach GREEN and provide AA protection to beach. Will move with remainder of Bn to close support of 3rd Inf Div Arty on 5th AAA Group order.

c. 534th AAA AW Bn, less Btry D, will land on Beach RED and provide AA protection to landing beaches until relieved by 5th AAA Gp order. Btry B will land on Beach GREEN and provide AA defense to landing beach until relieved by 5th AAA Group order.

d. 72nd AAA Bn, less Btry's C & D, will land on Beach RED and position as directed by 36th AAA Brigade to provide AAA defense of landing beach. Btry's C & D will land on Beach GREEN and position as directed by 36th AAA Brigade to provide AA defense of landing beaches.

e. 104th Barrage Balloon Btry will land 18 balloons from LCT's on Beach RED, position on beach for AA defense. Will land 12 balloons on Beach GREEN from LCT's position on beach for AA defense.

4. Omitted.

5. Command Post 5th AAA Gp will be established on Beach RED in vicinity of 36th Engr CP at beach control point. Command Posts of 441st AAA Bn, 534th AAA Bn, 72nd AAA Bn, 104th BB Btry, and Plat 21st Cml Co (Decon) will be established on Beach RED and will make contact with CP 5th AAA GP as soon and by whatever means are most practicable.

O'DANIEL
COMDG

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COMMO
G-3

1 Incl - Position Overlay

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HQ 3RD INF DIV REINF
APO No. 3
1 August 1944

APPENDIX 4 to ANNEX 15 (FO 12)

SMOKE EMPLOYMENT INSTRUCTIONS
ALTERNATE PLAN ARROWHEAD

1. No change.

2. No change.

3. a. One officer and 15 men will be assigned to each of 4 LCT's in 1st Wave.

RED Beach

Det, 21st Cml Co (Decon)
Det, 3rd Cml Bn

GREEN Beach

Det, 21st Cml Co (Decon)

b. No change.
c. No change.
d. All smoke pots at smoke points to be fired as indicated on atchd sketch.

O'DANIEL,
Comdg.

OFFICIAL:

CONNOR,
G-3.

1 Incl - Sketch.

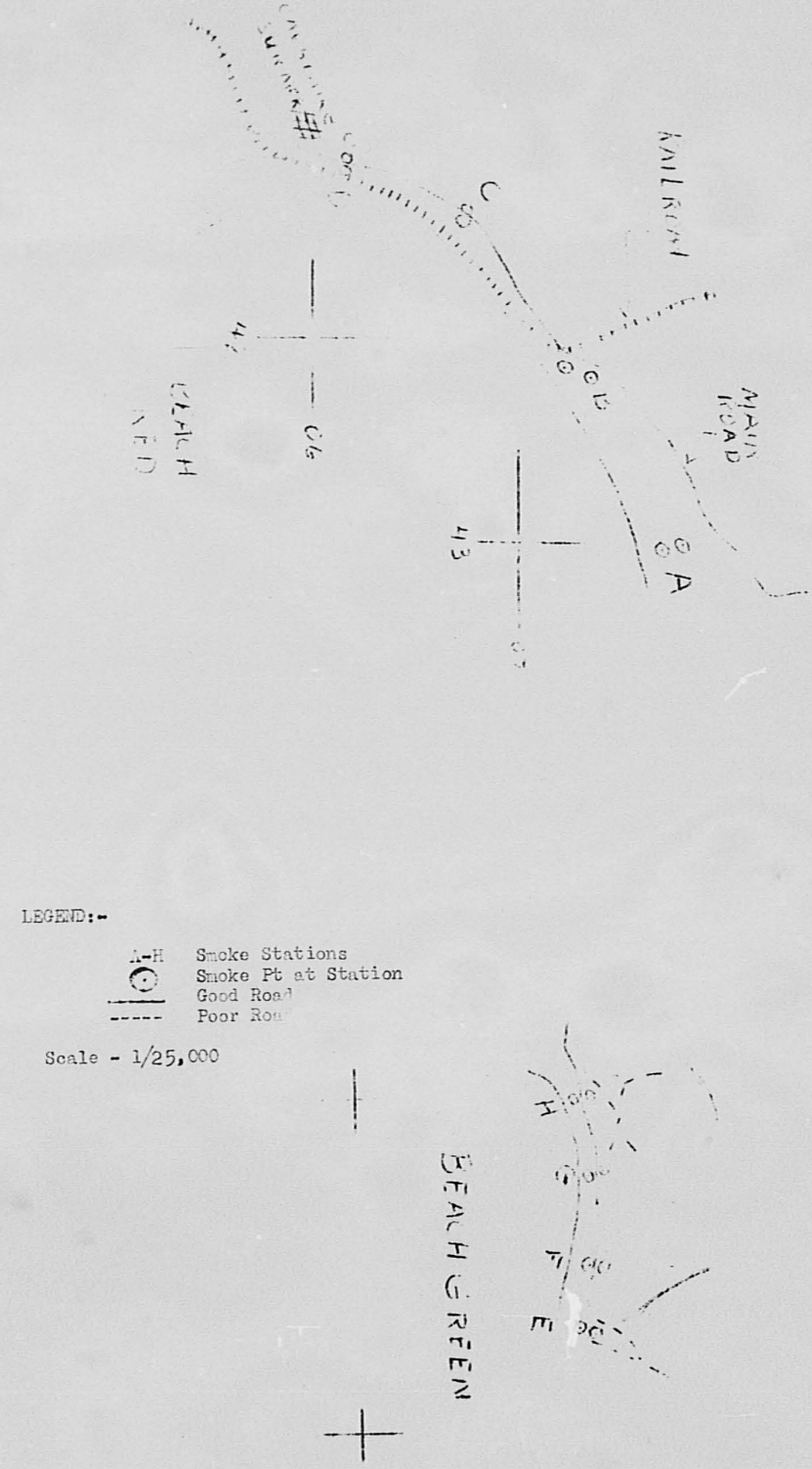
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Inclosure 1 to Appendix 4 to Annex 15 (FO 12)



LEGEND:-

A-H Smoke Stations
Smoke Pt at Station
Good Road
Poor Road

Scale - 1/25,000

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Frame Number	Classification Number	Date Period	Vol.	Pt.	Title	Security Classification	Remarks
4	682.327-1	Jul/44			7th Army Field Order Anvil	U	
10	682.327-2	Aug/44			7th Army Field Order Dragoon	U	
229	682.327-3	Aug/44			7th Army Field Order Anvil	U	
247	682.4501	Apr/43			7th Army Aviation In North Africia	U	
373	682.607	Aug-Sep/44			7th Army Weekly Information Bulletins	U	
449	682.619	Oct/45			7th Army Interrogation Rept.	U	
604	682.619-1	Feb-Jul/45			Collection of Interrogation Rept.	U	
621	682.619-2	Jul-Aug/45			Collection of Interrogation Rept.	U	
625	682.625-1	Jun-Jul/45			7th Army Inventory Repts.	U	
724	682.651	May/45			~~New German~~ Plane Developement	U	
731	682.667-1	1944			7th Army Oper. Dragoon	U	
824	685.12-9031	Oct/43-Dec/44			Signal Oper. Instructions	U	
874	~~685.14-625~~	Jun/44			Enemy Captured Documents	U	
893	685.21-9031	Dec/43-Mar/45			Signal Oper. Instructions	U	
1180	685.234-0931	May-Dec/44			Signal Oper. Instructions	U	
1272	685.282-452	Sep/43			Paratroop Operations	U	
1794	Index				Index		

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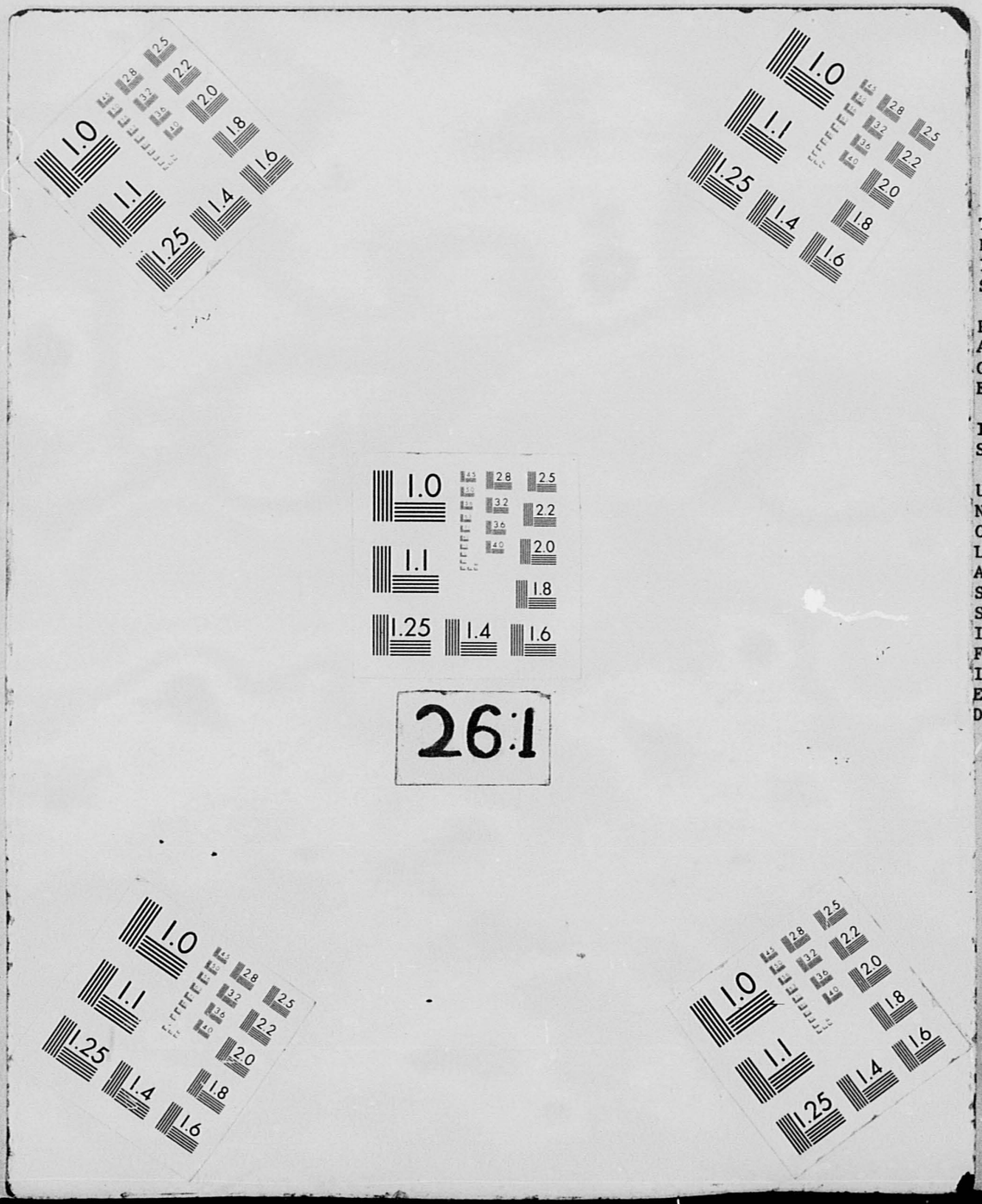
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